ILLINOIS POLLUTION CONTROL BOARD June 1, 1995

IN THE MATTER OF: UIC UPDATE, USEPA REGULATIONS (7-1-94 THROUGH 12-31-94)))))	R95-4 (Identical-in-Substance Rules)
IN THE MATTER OF:)	R95-6
RCRA UPDATE, USEPA REGULATIONS (7-1-94 THROUGH 12-31-94)))	(Identical in Substance Rules

Adopted Rule. Final Order.

ORDER OF THE BOARD (by E. Dunham):

Pursuant to Section 13(c) and 22.4(a) of the Environmental Protection Act (Act) [415 ILCS 5/13(c) & 22.4(a) (1992)], the Board amends the RCRA Subtitle C hazardous waste (RCRA) and underground injection control (UIC) regulations.

Section 22.4(a) provides for quick adoption of regulations that are "identical in substance" to federal regulations adopted by U.S. EPA to implement Sections 3001 through 3005 of the Resource Conservation and Recovery Act of 1976 (RCRA, 42 U.S.C. §§ 6921-6925) and that Title VII of the Act and Section 5 of the Administrative Procedure Act (APA) [5 ILCS 100/5-35 & 5-40 (1992)] shall not apply. Section 13(c) similarly provides with respect to underground injection control regulations adopted by U.S. EPA pursuant to Section 1421 of the Safe Drinking Water Act (SDWA; 42 U.S.C. § 300h). Because this rulemaking is not subject to Section 5 of the APA, it is not subject to first notice or to second notice review by the Joint Committee on Administrative Rules (JCAR). The federal RCRA Subtitle C regulations are found at 40 CFR 260 through 268, 270 through 271, and, more recently, 279. The federal UIC regulations are found at 40 CFR 144, 146, and 148.

This order is supported by an opinion adopted on the same day. The Board will hold the adopted the amendments for 30 days before filing them with the Secretary of State, in order to allow U.S. EPA to comment on the adopted amendments before they are filed. After that time, the Board will file them, they will become effective, and Notices of Adopted Amendments will appear in the Illinois Register. The complete text of the adopted rules follows.

IT IS SO ORDERED.

Board Member M. McFawn concurred.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, certify that the above order was adopted by the Board on the $\underline{/ M}$ day of $\underline{/ M }$, 1995, by a vote of $\underline{/ 7 - 0}$.

Dorothy M. Gunn, Clerk Illinois Pøl/lution Control Board

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER a: GENERAL PROVISIONS

PART 700

OUTLINE OF WASTE DISPOSAL REGULATIONS (REPEALED)

SUBPART A: GENERAL

	SUBPART A: GENERAL
Section	
700.101	-Applicability (Repealed)
700.102	- Other Regulations (Repealed)
700.103	-Organization (Repealed)
700.104	- Intent and Purpose (Repealed)
700.105	- Interim Status (Repealed)
700.106	
700.107	- Severability (Repealed)
700.108	References to Federal Rules (Repealed)
700.109	- Permits Prior to Authorization (Repealed)
	SUBPART B: DEFINITIONS
Section	
700.201	- Definitions (Repealed)
700.205	-Act (Repealed)
700.210	Chapter 7 Operating Requirements (Repealed)
700.215	- Chapter 7 Permits (Repealed)
700.220	- Chapter 9 Operating Requirements (Repealed)
700.225	- Chapter 9 Permits (Repealed)
700.230	- Conflict (Repealed)
700.235	HWM (Repealed)
700.240	- Operating Requirements (Repealed)
700.245	- Permit Requirements (Repealed)
700.250	- RCRA Operating Requirements (Repealed)
700.255	- RCRA Permit (Repealed)
700.260	
700.265	<u>Subject To (Repealed)</u>
	SUBPART C: GENERATORS
Section	
700.301	
700.302	- Operating Requirements (Repealed)
700.303	-Manifests (Repealed)
700.304	-Small Quantity Exemptions (Repealed)
	SUBPART D: TRANSPORTERS
Section	
700.401	- Permits (Repealed)
700.402	- Operating Requirements (Repealed)
700.403	Manifests (Repealed)
700.404	- Small Quantity Exemptions (Repealed)
	SUBPART E: OWNERS AND OPERATORS OF
	HWM SITES
Section	
700.501	-Permits (Repealed)
700.502	- Operating Requirements (Repealed)

700.502 Operating Requirements (Repealed)

700.503 Manifests (Repealed)

700.504 ----- Small Quantity Exemptions (Repealed)

SUBPART F: HAZARDOUS (INFECTIOUS) HOSPITAL WASTE

Section

 700.601
 Hazardous (Infectious) Hospital Waste (Repealed)

 700.602
 General Rule (Repealed)

 700.603
 Cenerators (Repealed)

 700.604
 Transporters (Repealed)

 700.605
 Owners and Operators (Repealed)

700, Appendix A: Applicability Provisions (Repealed)

AUTHORITY: Implementing Sections 13 and 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/13, 22.4, 27].

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective May 17, 1982; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828; effective May 17, 1982; amended in R81-32, 47 PCB 93, at 6 Ill. Reg. 12655; effective May 17, 1982; amended in R82-18, 51 PCB 31, at 7 Ill. Reg. 2518; effective February 22, 1983; amended in R82-19, at 7 Ill. Reg. 14457; effective October 12, 1983; amended in R83-24, at 8 Ill. Reg. 200, effective December 27, 1983; amended in R94-5 at 18 Ill. Reg. 18244; effective December 20, 1994Repealed in R95-6 at 19 Ill. Reg. ____, effective

SUBPART At CENERAL

Section 700.101 Applicability (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

Section 700.102 Other Regulations (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

Section 700.103 Organization (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.104 Intent and Purpose (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.105 Interim Status (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

Section 700.106 Effective Dates

a) U.S. EPA granted interim authorization to the Illinois RCRA Subtitle C Program effective May 17, 1982, at 47 Fed. Reg. 21043 (May 17, 1982). U.S. EPA granted final authorization effective January 31, 1986, at 51 Fed. Reg. 3778 (January 30, 1986).

- 1) The effective date of 35 Ill. Adm. Code 720, 721, 722, 723, and 725 was May 17, 1982.
- 2) The effective date of 35 Ill. Adm. Code 702 and 705, to the extent they apply to the issuance of RCRA permits, was May 17, 1982; however, RCRA permits were not issued prior to January 31, 1986.
- 3) The effective date of 35 Ill. Adm. Code 703 and 724 was October 12, 1983; however, RCRA permits were not issued prior to January 31, 1986.
- b) U.6. EPA authorized the Illinois UIC program effective March 3, 1984, at 49 Fed. Reg. 3991 (Feb. 1, 1984).
 - 1) The effective date of 35 Ill. Adm. Code 702, 704 and 705, to the extent they apply to the issuance of UIC (Underground Injection Control) permits, was March 3, 1984.
 - 2) The effective date of 35 Ill. Adm. Code 730 was March 37 1984.

(Source: Amended at 18 Ill. Reg. 18244, effective December 20, 1994)

Section 700.107 Severability (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.108 References to Federal Rules (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

Section 700.109 Permits Prior to Authorization (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

SUBPART B: DEFINITIONS

Section 700.201 Definitions (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

Section 700.205 Act (Repealed)

(Source: Repealed at 18 Ill, Reg. 18244, effective December 20, 1994) Section 700.210 Chapter 7 Operating Requirements (Repealed)

(Source: Repealed at 18 Ill, Reg. 18244, effective December 20, 1994) Section 700.215 Chapter 7 Permits (Repealed)

(Source: Repealed at 18 Ill, Reg. 18244, effective December 20, 1994) Section 700.220 Chapter 9 Operating Requirements (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.225 Chapter 9 Permits (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.230 Conflict (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.235 HWM (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.240 Operating Requirements (Repealed)

6

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.245 Permit Requirements (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.250 RCRA Operating Requirements (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.255 RCRA Permit (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.260 RCRA Rules (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.265 Subject To (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

SUBPART C: CENERATORS

Section 700.301 Permits (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)
Section 700.302 Operating Requirements (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.303 Manifests (Repealed) (Source: Repealed at 18 Ill, Reg. 18244, effective December 20, 1994) Section 700.304 Small Quantity Exemptions (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

SUBPART D+ TRANSPORTERS

Section 700.401 Permits (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.402 — Operating Requirements (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.403 Manifests (Repealed)

(Source: Repealed at 18 Ill, Reg. 18244, effective December 20, 1994) Section 700.404 Small Quantity Exemptions (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

SUBPART E: OWNERS AND OPERATORS OF HWM SITES

Section 700.501 Permits (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.502 Operating Requirements (Repealed)

8

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.503 Manifests (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.504 Small Quantity Exemptions (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

SUBPART F: HAZARDOUS (INFECTIOUS) HOSPITAL WASTE

Section 700.601 Hazardous (Infectious) Hospital Waste (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.602 General Rule (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.603 Generators (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.604 Transporters (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994) Section 700.605 Owners and Operators (Repealed)

9

10

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

700.Appendix A Applicability Provisions (Repealed)

(Source: Repealed at 18 Ill. Reg. 18244, effective December 20, 1994)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER b: PERMITS

PART 702

RCRA AND UIC PERMIT PROGRAMS

SUBPART A: GENERAL PROVISIONS

Section	
702.101	Purpose, Scope, and Applicability
702.102	Purpose and Scope (Repealed)
702.103	Confidentiality of Information Submitted to the Agency or Board
702.104	References
702.105	Rulemaking
702.106	Adoption of Agency Criteria
702.107	Permit Appeals and Review of Agency Determinations
702.108	Variances and Adjusted Standards
702.109	Enforcement Actions
702.110	Definitions

SUBPART B: PERMIT APPLICATIONS

702.120	Permit Application	
702.121	Who Applies	
700 100	0	

702.122 0	Completeness
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Section

702.123	Information	Requirements
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702.124 Recordkeeping

- 702.125 Continuation of Expiring Permits
- 702.126 Signatories to Permit Applications and Reports

SUBPART C: PERMIT CONDITIONS

Section	
702.140	Conditions Applicable to all Permits
702.141	Duty to Comply
702.142	Duty to Reapply
702.143	Need to Halt or Reduce Activity Not a Defense
702.144	Duty to Mitigate
702.145	Proper Operation and Maintenance
702.146	Permit Actions
702.147	Property Rights
702.148	Duty to Provide Information
702.149	Inspection and Entry
702.150	Monitoring and Records
702.151	Signature Requirements
702.152	Reporting Requirements
702.160	Establishing Permit Conditions
702.161	Duration of Permits
702.162	Schedules of Compliance
702.163	Alternative Schedules of Compliance
702.164	Recording and Reporting

SUBPART D: ISSUED PERMITS

Section	
702.181	Effect of a Permit
702.182	Transfer
702.183	Modification
702.184	Causes for Modification
702.185	Facility Siting
702.186	Revocation
702.187	Minor Modifications

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AUTHORITY: Implementing Section 13 and 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/13, 22.4 and 27].

Adopted in R81-32, 47 PCB 93, at 6 Ill. Reg. 12479, effective May 17, SOURCE: 1982; amended in R82-19, at 53 PCB 131, 7 Ill. Reg. 14352, effective May 17, 1982; amended in R84-9 at 9 Ill. Reg. 11926, effective July 24, 1985; amended in R85-23 at 10 Ill. Reg. 13274, effective July 29, 1986; amended in R86-1 at 10 Ill. Reg. 14083, effective August 12, 1986; amended in R86-28 at 11 Ill. Reg. 6131, effective March 24, 1987; amended in R87-5 at 11 Ill. Reg. 19376, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2579, effective January 15, 1988; amended in R87-29 at 12 Ill. Reg. 6673, effective March 28, 1988; amended in R87-39 at 12 Ill. Reg. 13083, effective July 29, 1988; amended in R89-1 at 13 Ill. Reg. 18452, effective November 13, 1989; amended in R89-2 at 14 Ill. Reg. 3089, effective February 20, 1990; amended in R89-9 at 14 Ill. Reg. 6273, effective April 16, 1990; amended in R92-10 at 17 Ill. Reg. 5769, effective March 26, 1993; amended in R93-16 at 18 Ill. Reg. 6918, effective April 26, 1994; amended in R94-5 at 18 Ill. Reg. 18284, effective December 20, 1994; amended in R95-6 at 19 Ill. Reg. _____, effective

SUBPART D: ISSUED PERMITS

Section 702.181 Effect of a Permit

a) The existence of a RCRA or UIC permit does not constitute a defense to a violation of the Environmental Protection Act or this Subtitle, except for development, modification, or operation without a permit. However, a permit may be modified, reissued, or revoked during its term for cause as set forth in 35 Ill. Adm. Code 703.270 through 703.273 (RCRA) or 35 Ill. Adm. Code 704.261 through 704.263 (UIC) and Section 702.186.

BOARD NOTE: 40 CFR 270.4(a) differs from this subsection (a) in two significant aspects: (1) it states that compliance with the permit is compliance with federal law, and (2) it enumerates exceptions when compliance with the permit can violate federal law. The exceptions are intervening (1) statutory requirements; (2) 40 CFR 268 land disposal restrictions; (3) 40 CFR 264 leak detection requirements; and (4) 40 CFR 266, subparts AA, BB, and CC air emissions limitations. By not codifying the federal exceptions, since they are not necessary in the Illinois program to accomplish the intended purpose, the Board does not intend to imply that compliance with a RCRA permit obviates immediate compliance with any of the events included in the federal exceptions.

- b) The issuance of a permit does not convey any property rights of any sort, or any exclusive privilege.
- c) The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights, or any

infringement of State or local law or regulations, except as noted in subsection (a) above.

BOARD NOTE: Derived from 40 CFR 144.35 (19934) and 40 CFR 270.4 (19924), as amended at 59 Fed. Reg. 62952 (Dec. 6, 1994).

(Source: Amended at 19 Ill. Reg. ____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER b: PERMITS

PART 703 RCRA PERMIT PROGRAM

SUBPART A: GENERAL PROVISIONS

- Scope and Relation to Other Parts 703.100
- Purpose 703.101

Section

Section

Section

References 703.110

SUBPART B: PROHIBITIONS

- 703.120 Prohibitions in General
- 703.121 RCRA Permits
- 703.122 Specific Inclusions in Permit Program
- 703.123 Specific Exclusions from Permit Program
- Discharges of Hazardous Waste 703.124
- Reapplications 703.125
- 703.126 Initial Applications
- 703.127 Federal Permits (Repealed)

SUBPART C: AUTHORIZATION BY RULE AND INTERIM STATUS

- Section 703.140 Purpose and Scope
- Permits by Rule 703.141
- 703.150 Application by Existing HWM Facilities and Interim Status Qualifications
- Application by New HWM Facilities 703.151
- 703.152 Amended Part A Application
- 703.153 Qualifying for Interim Status
- 703.154 Prohibitions During Interim Status
- Changes During Interim Status Interim Status Standards 703.155
- 703.156
- Grounds for Termination of Interim Status 703.157
- Permits for Less Than an Entire Facility 703.158
- 703.159 Closure by Removal
- Procedures for Closure Determination 703.160

SUBPART D: APPLICATIONS

Deceron	
703.180	Applications in General
703.181	Contents of Part A
703.182	Contents of Part B
703.183	General Information
703.184	Facility Location Information
703.185	Groundwater Protection Information
703.186	Exposure Information
703.187	Solid Waste Management Units
703.188	Other Information

703.200	Specific	Þart	в	Application	Information
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- 703.201 Containers
- 703.202 Tank Systems 703.203
- Surface Impoundments Waste Piles 703.204
- 703.205 Incinerators that Burn Hazardous Waste 703.206 Land Treatment
- 703.207 Landfills
- 703.208 Boilers and Industrial Furnaces Burning Hazardous Waste
- 703.209 Miscellaneous Units
- Process Vents 703.210
- 703.211 Equipment
- 703.212 Drip Pads
- 703.213 Air Emission Controls for Tanks, Surface Impoundments, and <u>Containers</u>

SUBPART E: SHORT TERM AND PHASED PERMITS

Section	
703.221	Emergency Permits
703.222	Incinerator Conditions Prior to Trial Burn
703.223	Incinerator Conditions During Trial Burn
703.224	Incinerator Conditions After Trial Burn
703.225	Trial Burns for Existing Incinerators
703.230	Land Treatment Demonstration
703.231	Research, Development and Demonstration Permits
703.232	Permits for Boilers and Industrial Furnaces Burning Hazardous
	Wagto

Waste

SUBPART F: PERMIT CONDITIONS OR DENIAL

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7	0	3	•	2	4	0	Permit Denial	0	1

Section

Section

- 703.242 Noncompliance Pursuant to Emergency Permit
- 703.243 Monitoring
- 703.244 Notice of Planned Changes (Repealed)
- Twenty-four Hour Reporting 703.245
- 703.246 Reporting Requirements
- 703.247 Anticipated Noncompliance

SUBPART G: CHANGES TO PERMITS

00001011	
703.260	Transfer
703.270	Modification
703.271	Causes for Modification
703.272	Causes for Modification or Reissuance
703.273	Facility Siting
703.280	Permit Modification at the Request of the Permittee
703.281	Class 1 Modifications
703.282	Class 2 Modifications
703.283	Class 3 Modifications

703.Appendix A Classification of Permit Modifications

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SOURCE: Adopted in R82-19, 53 PCB 131, at 7 Ill. Reg. 14289, effective October 12, 1983; amended in R83-24 at 8 Ill. Reg. 206, effective December 27, 1983; amended in R84-9 at 9 Ill. Reg. 11899, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 1110, effective January 2, 1986; amended in R85-23 at 10 Ill. Reg. 13284, effective July 28, 1986; amended in R86-1 at 10 Ill. Reg. 14093, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg. 20702,

effective December 2, 1986; amended in R86-28 at 11 Ill. Reg. 6121, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13543, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19383, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2584, effective January 15, 1988; amended in R87-39 at 12 Ill. Reg. 13069, effective July 29, 1988; amended in R88-16 at 13 Ill. Reg. 447, effective December 27, 1988; amended in R89-1 at 13 Ill. Reg. 18477, effective November 13, 1989; amended in R89-9 at 14 Ill. Reg. 6278, effective April 16, 1990; amended in R90-2 at 14 Ill. Reg. 14492, effective August 22, 1990; amended in R90-11 at 15 Ill. Reg. 9616, effective June 17, 1991; amended in R91-1 at 15 Ill. Reg. 14554, effective September 30, 1991; amended in R91-13 at 16 Ill Reg. 9767, effective June 9, 1992; amended in R92-10 at 17 Ill. Reg. 5774, effective March 26, 1993; amended in R93-4 at 17 Ill. Reg. 20794, effective November 22, 1993; amended in R93-16 at 18 Ill. Reg. 6898, effective April 26, 1994; amended in R94-7 at 18 Ill. Reg. 12392, effective July 29, 1994; amended in R94-5 at 18 Ill. Reg. 18316, effective December 20, 1994; amended in R95-6 at 19 Ill. Reg.

SUBPART D: APPLICATIONS

Section 703.183 General Information

The following information is required in the Part B application for all HWM facilities, except as 35 Ill. Adm. Code 724.101 provides otherwise:

- a) A general description of the facility;
- b) Chemical and physical analyses of the hazardous wastes and hazardous debris to be handled at the facility. At a minimum, these analyses must contain all the information which must be known to treat, store or dispose of the wastes properly in accordance with 35 Ill. Adm. Code 724;
- c) A copy of the waste analysis plan required by 35 Ill. Adm. Code 724.113(b) and, if applicable, 35 Ill. Adm. Code 724.113(c);
- A description of the security procedures and equipment required by 35 Ill. Adm. Code 724.114, or a justification demonstrating the reasons for requesting a waiver of this requirement;
- e) A copy of the general inspection schedule required by 35 Ill. Adm. Code 724.115(b). Include where applicable, as part of the inspection schedule, specific requirements in 35 Ill. Adm. Code 724.274, 724.293(i), 724.295, 724.326, 724.354, 724.373, 724.403, 724.702, 724.933, 724.952, 9724.953, and 724.958, 724.988, and 724.991;
- f) A justification of any request for a waiver of the preparedness and prevention requirements of 35 Ill. Adm. Code 724.Subpart C;
- g) A copy of the contingency plan required by 35 Ill. Adm. Code 724.Subpart D;

BOARD NOTE: Include, where applicable, as part of the contingency plan, specific requirements in 35 Ill. Adm. Code 724.327 and 724.355. 35 Ill. Adm. Code 724.355 has not yet been adopted.

- h) A description of procedures, structures, or equipment used at the facility to:
 - 1) Prevent hazards in unloading operations (for example, ramps,

or special forklifts);

- 2) Prevent runoff from hazardous waste handling areas to other areas of the facility or environment, or to prevent flooding (for example, berms, dikes, or trenches);
- Prevent contamination of water supplies;
- 4) Mitigate effects of equipment failure and power outages;
- 5) Prevent undue exposure of personnel to hazardous waste (for example, protective clothing); and
- 6) Prevent releases to the atmosphere.
- A description of precautions to prevent accidental ignition or reaction of ignitable, reactive, or incompatible wastes, as required to demonstrate compliance with 35 Ill. Adm. Code 724.117, including documentation demonstrating compliance with 35 Ill. Adm. Code 724.117(c);
- j) Traffic pattern, estimated volume (number, and types of vehicles), and control (for example, show turns across traffic lanes and stacking lanes, (if appropriate); describe access road surfacing and load bearing capacity; and show traffic control signals);
- k) Facility location information, as required by Section 703.184;
- 1) An outline of both the introductory and continuing training programs by the owners or operators to prepare persons to operate or maintain the HWM facility in a safe manner, as required to demonstrate compliance with 35 Ill. Adm. Code 724.116. A brief description of how training will be designed to meet actual job tasks in accordance with requirements in 35 Ill. Adm. Code 724.116(a)(3);
- m) A copy of the closure plan and, where applicable, the post-closure plan required by 35 Ill. Adm. Code 724.212, 724.218, and 724.297. Include where applicable, as part of the plans, specific requirements in 35 Ill. Adm. Code 724.278, 724.297, 724.328, 724.358, 724.380, 724.410, 724.451, 724.701, and 724.703;
- n) For hazardous waste disposal units that have been closed, documentation that notices required under 35 Ill. Adm Code 724.219 have been filed;
- o) The most recent closure cost estimate for the facility_ prepared in accordance with 35 Ill. Adm. Code 724.242, and a copy of the documentation required to demonstrate financial assurance under 35 Ill. Adm. Code 724.243. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if it is later than the submission of the Part B_permit application;
- p) Where applicable, the most recent post-closure cost estimate for the facility, prepared in accordance with 35 Ill. Adm. Code 724.244, plus a copy of the documentation required to demonstrate financial assurance under 35 Ill. Adm. Code 724.2457. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if it is later than the submission of the Part B permit application;

- q) Where applicable, a copy of the insurance policy or other documentation which comprises compliance with the requirements of 35 Ill. Adm. Code 724.247. For a new facility, documentation showing the amount of insurance meeting the specification of 35 Ill. Adm. Code 724.247(a) and, if applicable, 35 Ill. Adm. Code 724.247(b)₇ that the owner or operator plans to have in effect before initial receipt of hazardous waste for treatment, storage, or disposal. A request for an alternative level of required coverage₇ for a new or existing facility₇ may be submitted as specified in 35 Ill. Adm. Code 724.247(c);
- r) A topographic map showing a distance of 1000 feet around the facility at a scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet). Contours must be shown on the map. The contour interval must be sufficient to clearly show the pattern of surface water flow in the vicinity of and from each operational unit of the facility. For example, contours with an interval of 1.5 meters (5 feet), if relief is greater than 6.1 meters (20 feet), or an interval of 0.6 meters (2 feet), if relief is less than 6.1 meters (20 feet). Owners and operators of HWM facilities located in mountainous areas shall use larger contour intervals to adequately show topographic profiles of facilities. The map must clearly show the following:
 - 1) Map scale and date;
 - 100-year floodplain area;
 - 3) Surface waters including intermittent streams;
 - Surrounding land uses (<u>e.g.,</u> residential, commercial, agricultural, recreational, <u>etc.</u>);
 - 5) A wind rose (i.e., prevailing windspeed and direction);
 - 6) Orientation of the map (north arrow);
 - 7) Legal boundaries of the HWM facility site;
 - Access control (<u>e.g.</u>, fences, gates, <u>etc.</u>);
 - 9) Injection and withdrawal wells both on-site and off-site;
 - 10) Buildings; treatment, storage, or disposal operations; or other structures (<u>e.q.</u>, recreation areas, runoff control systems, access and internal roads, storm, sanitary and process sewage systems, loading and unloading areas, fire control facilities, etc.);
 - 11) Barriers for drainage or flood control;
 - 12) Location of operational units within the HWM facility site, where hazardous waste is (or will be) treated, stored, or disposed (include equipment cleanup areas);

BOARD NOTE: For large HWM facilities, the Agency shall allow the use of other scales on a case by case basis.

s) Applicants shall submit such information as the Agency determines is necessary for it to determine whether to issue a permit and what conditions to impose in any permit issued.; and t) For land disposal facilities, if a case-by-case extension has been approved under 35 Ill. Adm. Code 728.1057 or if a petition has been approved under 35 Ill. Adm. Code 728.106, a copy of the notice of approval of the extension or of approval of the petition is required.

BOARD NOTE: Derived from 40 CFR 270.14(b) (198894), as amended at 579 Fed. Reg. 37281, August 18, 199262952 (Dec. 6, 1994).

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 703.201 Containers

For facilities that store containers of hazardous waste, except as otherwise provided in 35 Ill. Adm. Code 724.270, the Part B application must include:

- a) A description of the containment system to demonstrate compliance with 35 Ill. Adm. Code 724.275. Show at least the following:
 - 1) Basic design parameters, dimensions, and materials of construction;
 - How the design promotes drainage or how containers are kept from contact with standing liquids in the containment system;
 - 3) Capacity of the containment system relative to the number and volume of containers to be stored;
 - 4) Provisions for preventing or managing run-on; and
 - 5) How accumulated liquids can be analyzed and removed to prevent overflow_{f.}
- b) For storage areas that store containers holding wastes that do not contain free liquids, a demonstration of compliance with 35 Ill. Adm. Code 724.275(c), including:
 - 1) Test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and
 - 2) A description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing liquids1.
- c) Sketches, drawings, or data demonstrating compliance with 35 Ill. Adm. Code 724.276 (location of buffer zone and containers holding ignitable or reactive wastes) and Section 724.277(c) (location of incompatible wastes), where applicable.
- d) Where incompatible wastes are stored or otherwise managed in containers, a description of the procedures used to ensure compliance with 35 Ill. Adm. Code 724.117(b) and (c) and 724.277(a) and (b).
- e) Information on air emission control equipment, as required in Section 703.213.

BOARD NOTE: Derived from 40 CFR 270.15 (19924), as amended at 59 Fed. Reg. 62952 (Dec. 6, 1994).

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 703.202 Tank Systems

Except as otherwise provided in 35 Ill. Adm. Code 724.290, owners and operators of facilities that use tanks to store or treat hazardous waste shall provide the following additional linformation:

- A written assessment that is reviewed and certified by an independent, qualified, registered professional engineer as to the structural integrity and suitability for handling hazardous waste of each tank system, as required under 35 Ill. Adm. Code 724.291 and 724.292;
- b) Dimensions and capacity of each tank;
- c) Description of feed systems, safety cutoff, bypass systems, and pressure controls (e.g., vents);
- A diagram of piping, instrumentation, and process flow for each tank system;
- A description of materials and equipment used to provide external corrosion protection, as required under 35 Ill. Adm. Code 724.292(a)(3)(BB);
- f) For new tank systems, a detailed descriptions of how the tank system(s) will be installed in compliance with 35 Ill. Adm. Code 724.292(b), (c), (d), and (e);
- g) Detailed plans and description of how the secondary containment system for each tank system is or will be designed, constructed and operated to meet the requirements of 35 Ill. Adm. Code 724.293(a), (b), (c), (d), (e), and (f);
- For tank systems for which alternative design and operating practices are sought pursuant to 35 Ill. Adm. Code 724.293(g):
 - Detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous waste or hazardous constituents into the groundwater or surface water during the life of the facility, or
 - 2) A detailed assessment of the substantial present or potential hazards posed to human health or the environment should a release enter the environment.
 - 3) A copy of the petition for alternative design and operating practices or, if such have already been granted, a copy of the Board Order granting alternative design and operating practices;
- i) Description of controls and practices to prevent spills and overflows, as required under 35 Ill. Adm. Code 724.294(b);-and
- j) For tank systems in which ignitable, reactive or incompatible wastes are to be stored or treated, a description of how operating procedures and tank system and facility design will achieve compliance with the requirements of 35 Ill. Adm. Code 724.298 and 724.299+; and

<u>k)</u> <u>Information on air emission control equipment, as required in</u> <u>Section 703.213.</u>

(Board NoteBOARD NOTE: See 40 CFR 270.16 (198694), as amended at 519 Fed. Reg. 25471, July 14, 198662952 (Dec. 6, 1994).

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 703.203 Surface Impoundments

For facilities that store, treat, or dispose of hazardous waste in surface impoundments, except as otherwise provided in 35 Ill. Adm. Code 724.101, the Part B application must include:

- a) A list of the hazardous wastes placed or to be placed in each surface impoundment₇.
- b) Detailed plans and an engineering report describing how the surface impoundment is designed and is or will be constructed, operated, and maintained to meet the requirements of 35 Ill. Adm. Code 724.119, 724.321, 724.322 and 724.323, addressing the following items:
 - The liner system (except for an existing portion of a surface impoundment). If an exemption from the requirement for a liner is sought, as provided by 35 Ill. Adm. Code 724.321(b), submit a copy of the Board order granting an adjusted standard pursuant to 35 Ill. Adm. Code 724.321(b);
 - 2) The double liner and leak (leachate) detection, collection, and removal system, if the surface impoundment must meet the requirements of 35 Ill. Adm. Code 724.321(c). If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by 35 Ill. Adm. Code 724.321(d), (e), or (f), submit appropriate information;
 - 3) If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system;
 - 4) The construction quality assurance (CQA) plan if required under 35 Ill. Adm. Code 724.119; and
 - 5) Proposed action leakage rate, with rationale, if required under 35 Ill. Adm. Code 724.3227; response action plan, if required under 35 Ill. Adm. Code 724.3237; and a proposed pump operating level, if required under 35 Ill. Adm. Code 724.326(d)(3);
 - 6) Prevention of overtopping; and
 - 7) Structural integrity of dikes+.
- c) A description of how each surface impoundment, including the double liner system, leak detection system, cover system and appurtenances for control of overtopping, will be inspected in order to meet the requirements of 35 Ill. Adm. Code 724.326(a), (b), and (d). This information must be included in the inspection plan submitted under Section 703.183(e).

- d) A certification by a qualified engineer which attests to the structural integrity of each dike, as required under 35 Ill. Adm. Code 724.326(c). For new units, the owner or operator shall submit a statement by a qualified engineer that the engineer will provide such a certification upon completion of construction in accordance with the plans and specifications;.
- e) A description of the procedure to be used for removing a surface impoundment from service, as required under 35 Ill. Adm. Code 724.327(b) and (c). This information must be included in the contingency plan submitted under Section 703.183(g)+.
- f) A description of how hazardous waste residues and contaminated materials will be removed from the unit at closure, as required under 35 Ill. Adm. Code 724.328(a)(1). For any wastes not to be removed from the unit upon closure, the owner or operator shall submit detailed plans and an engineering report describing how 35 Ill. Adm. Code 724.328(a)(2) and (b) will be complied with. This information must be included in the closure plan and, where applicable, the post-closure plan submitted under Section 703.183(m)1.
- g) If ignitable or reactive wastes are to be placed in a surface impoundment, an explanation of how 35 Ill. Adm. Code 724.329 will be complied with to the complexity of th
- h) If incompatible wastes, or incompatible wastes and materials, will be placed in a surface impoundment, an explanation of how 35 Ill. Adm. Code 724.330 will be complied with - and -.
- i) A waste management plan for hazardous waste numbers F020, F021, F022, F023, F026, and F027 describing how the surface impoundment is or will be designed, constructed, operated, and maintained to meet the requirements of 35 Ill. Adm. Code 724.331. This submission must address the following items as specified in that Section:
 - The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;
 - The attenuative properties of underlying and surrounding soils or other materials;
 - 3) The mobilizing properties of other materials co-disposed with these wastes; and
 - 4) The effectiveness of additional treatment, design or monitoring techniques.
- <u>j)</u> <u>Information on air emission control equipment, as required in</u> <u>Section 703.213.</u>

BOARD NOTE: Derived from 40 CFR 270.17 (199 \pm 4), as amended at 579 Fed. Reg. 3486, January 29, 199262952 (Dec. 6, 1994).

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(Source: Amended at 19 Ill. Reg. _____, effective _____

Section 703.213 Air Emission Controls for Tanks, Surface Impoundments, and Containers

Except as otherwise provided in 35 Ill. Adm. Code 724.101, owners and

operators of tanks, surface impoundments, or containers that use air emission controls in accordance with the requirements of 35 Ill. Adm. Code 724.Subpart CC shall provide the following additional information:

- a) Documentation for each cover installed on a tank subject to 35 Ill. Adm. Code 724.984(b)(2) or 724.984(b)(3) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by the owner or operator that the cover meets the applicable design specifications as listed in 35 Ill. Adm. Code 725.991(c).
- b) Identification of each container area subject to the requirements of 35 Ill. Adm. Code 724.Subpart CC and certification by the owner or operator that the requirements of this Subpart are met.
- <u>c)</u> Documentation for each enclosure used to control air emissions from containers in accordance with the requirements of 35 Ill. Adm. Code 724.986(b)(2)(A) that includes information prepared by the owner or operator or provided by the manufacturer or vendor describing the enclosure design, and certification by the owner or operator that the enclosure meets the specifications listed in 35 Ill. Adm. Code 725.987(b)(2)(B).
- d) Documentation for each floating membrane cover installed on a surface impoundment in accordance with the requirements of 35 Ill. Adm. Code 724.985(c) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by the owner or operator that the cover meets the specifications listed in 35 Ill. Adm. Code 725.986(e).
- e) Documentation for each closed-vent system and control device installed in accordance with the requirements of 35 Ill. Adm. Code 724.987 that includes design and performance information as specified in 703.24(c) and (d).
- f) An emission monitoring plan for both Method 21 and control device monitoring methods. This plan must include the following information: monitoring points, monitoring methods for control devices, monitoring frequency, procedures for documenting exceedances, and procedures for mitigating noncompliances.
- g) When an owner or operator of a facility subject to 35 Ill. Adm. Code 725.Subpart CC cannot comply with 35 Ill. Adm. Code 724.Subpart CC by the date of permit issuance, the schedule of implementation required under 35 Ill. Adm. Code 725.982.

BOARD NOTE: Derived from 40 CFR 270.27, added at 59 Fed. Reg. 62952 (Dec. 6, 1994).

(Source: Added at 19 Ill. Reg. _____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD

SUBCHAPTER b: PERMITS

PART 705 PROCEDURES FOR PERMIT ISSUANCE SUBPART A: GENERAL PROVISIONS

Section			
705.101	Scope	and	Applicability

- 705.102 Definitions
- 705.103 Computation of Time

SUBPART B: PERMIT APPLICATIONS

- Section Permit Application 705.121
- Completeness 705.122
- Incomplete Applications 705.123
- 705.124 Site Visit
- 705.125 Effective Date
- 705.126 Decision Schedule
- 705.127 Consolidation of Permit Processing
- 705.128 Modification of Permits

SUBPART C: APPLICATION REVIEW

- Section 705.141 Draft Permits
- Statement of Basis 705.142
- 705.143 Fact Sheet
- 705.144 Administrative Record for Draft Permits or Notices of Intent to Deny

SUBPART D: PUBLIC NOTICE

- Section
- 705.161 When Public Notice Must Be Given
- 705.162 Timing of Public Notice
- 705.163 Methods of Public Notice
- Contents of Public Notice 705.164
- 705.165 Distribution of Other Materials

SUBPART E: PUBLIC COMMENT

Section								
705.181	Public	Comments	and	Requests	for	Public	Hearings	
705.182	Public	Hearings		-			-	

- 705.183 Obligation to Raise Issues and Provide Information 705.184 Reopening of Public Comment Period

SUBPART F: PERMIT ISSUANCE

Section	
705.201	Final Permit Decision
705.202	Stay upon Timely Application for Renewal
705.203	Stay for New Application or upon Untimely Application for Renewal
705.204	Stay upon Reapplication or for Modification
705.205	Stay Following Interim Status
705.210	Agency Response to Comments
705.211	Administrative Record for Final Permits or Letters of Denial
705.212	Appeal of Agency Permit Determinations

Appendix A: Procedures for Permit Issuance

- Appendix B: Modification Process
- Appendix C: Application Process
- Appendix D: Application Review Process
- Appendix E: Public Comment Process
- Appendix F: Permit Issuance or Denial

AUTHORITY: Implementing Sections 13 and 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/13, 22.4 and 27].

SOURCE: Adopted in R81-32, 47 PCB 93, at 6 Ill. Reg. 12479, effective May 17,

1982; amended in R82-19, at 7 Ill. Reg. 14352, effective May 17, 1982; amended in R84-9, at 9 Ill. Reg. 11894, effective July 24, 1985; amended in R89-2 at 14 Ill. Reg. 3082, effective February 20, 1990; amended in R94-5 at 18 Ill. Reg. 18265, effective December 20, 1994; amended in R95-6 at 19 Ill. Reg. ______, effective ______.

SUBPART B: PERMIT APPLICATIONS

Section 705.128 Modification of Permits

- a) <u>The Agency may modify a pPermits may be modified</u> either at the request of any interested person (including the permittee) or upon the Agency'sits own initiative. However, the Agency may only modify a permits may only be modified for the reasons specified in 35 Ill. Adm. Code 704.261 through 704.263 or 35 Ill. Adm. Code 703.270 through 703.273. All requests for permit modification shallmust be made in writing, must be addressed to the Agency (Division of Land Pollution Control), and shallmust contain facts or reasons supporting the request.
- b) If the Agency decides<u>determines</u> that the<u>a</u> request for modification is not justified, it shall send the requester a brief written response giving a reason for the decisiondetermination. A <u>d</u>Penials of <u>a</u> requests for modification areis not subject to public notice, comment, or <u>public</u> hearings requirements. The requester may appeal a <u>d</u>Penial of a request to modify <u>a permit</u>may be appealed to the Board pursuant to 35 Ill. Adm. Code 105.
- c) Agency Modification Procedures
 - 1) If the Agency tentatively decides to initiate steps to modify a permit under this <u>sSection</u> and 35 Ill. Adm. Code 704.261 through 704.263 or 35 Ill. Adm. Code 703.270 through 703.273, <u>it shall</u>, after giving public notice <u>pursuant to</u> <u>Section 705.161(a)(1)</u>, as though an application had been received (Sec. 705.161(a)(1)), it shall prepare a draft permit under Sec<u>tion</u> 705.141 incorporating the proposed changes. The Agency may request additional information and may require the submission of an updated permit application. For reissued permits, the Agency shall require the submission of a new application.
 - 2) In a permit modification proceeding under this #Section, only those conditions to be modified shall be reopened when a new draft permit is prepared. During any modification proceeding, including any appeals if anyto the Board, the permittee shall comply with all conditions of the<u>its</u> existing permit until a new final permit is reissued.
 - 3) "Minor modifications", as defined in 35 Ill. Adm. Code 704.264, and "Class 1 and 2 modifications," as defined in 35 Ill. Adm. Code 703.281 and 703.282, are not subject to the requirements of this Section. If the Agency makes a minor modification, the modified permit must be accompanied by a letter stating the reasons for the minor modification.
- d) To the extent that the Agency has authority to terminate or reissue permits, if it decides to do so, it must prepare a draft permit or notice of intent to deny in accordance with Section 705.141 if it decides to do so.

e) The Agency or any person may seek the revocation of a permit in accordance with Title VIII of the Environmental Protection Act and in-accordance with the procedure of 35 Ill. Adm. Code 103. Revocation may <u>only</u> be sought only for those reasons specified in 35 Ill. Adm. Code 702.186(a) through (d).

(Board NoteBOARD NOTE: Derived from 40 CFR 124.5 (198894)7 amended at 53 Fed. Reg. 37934, September 26, 1988).

(Source: Amended at 19 Ill. Reg. _____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 720

HAZARDOUS WASTE MANAGEMENT SYSTEM: GENERAL

SUBPART A: GENERAL PROVISIONS

- 720.101 Purpose, Scope and Applicability
- 720.102 Availability of Information; Confidentiality of Information
- 720.103 Use of Number and Gender

SUBPART B: DEFINITIONS

Section

Section

Section

- 720.110 Definitions
- 720.111 References

SUBPART C: RULEMAKING PETITIONS AND OTHER PROCEDURES

- 720.120 Rulemaking
- 720.121 Alternative Equivalent Testing Methods
- 720.122 Waste Delisting
- 720.130 Procedures for Solid Waste Determinations
- 720.131 Solid Waste Determinations
- 720.132 Boiler Determinations
- 720.133 Procedures for Determinations
- 720.140 Additional regulation of certain hazardous waste Recycling Activities on a case-by-case Basis
- 720.141 Procedures for case-by-case regulation of hazardous waste Recycling Activities

720. Appendix A Overview of 40 CFR, Subtitle C Regulations

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106May 17, 1982; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code 700.106May 17, 1982; amended in R82-19 at 7 Ill. Reg. 14015, effective October 12, 1983; amended in R84-9, 53 PCB 131 at 9 Ill. Reg. 11819, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 968, effective January 2, 1986; amended in R86-1 at 10 Ill. Reg. 13998, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg. 20630, effective December 2, 1986; amended in R86-28 at 11 Ill. Reg. 6017, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13435, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19280, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2450, effective January 15, 1988; amended in R87-39 at 12 Ill. Reg. 12999, effective July 29, 1988; amended in R88-16 at 13 Ill. Reg. 362, effective December 27, 1988; amended in R89-1 at 13 Ill. Reg. 18278, effective November 13, 1989; amended in R89-2 at 14 Ill. Reg. 3075, effective February 20, 1990; amended in R89-9 at 14 Ill. Reg. 6225, effective April 16, 1990; amended in R90-10 at 14 Ill. Reg. 16450, effective September 25, 1990; amended in R90-17 at 15 Ill. Reg. 7934, effective May 9, 1991; amended in R90-11 at 15 Ill. Reg. 9323, effective June 17, 1991; amended in R91-1 at 15 Ill. Reg. 14446, effective September 30, 1991; amended in R91-13 at 16 Ill. Reg. 9489, effective June 9, 1992; amended in R92-1 at 16 Ill. Reg. 17636, effective November 6, 1992; amended in R92-10 at 17 Ill. Reg. 5625, effective March 26, 1993; amended in R93-4 at 17 Ill. Reg. 20545, effective November 22, 1993; amended in R93-16 at 18 Ill. Reg. 6720, effective April 26, 1994; amended in R94-7 at 18 Ill. Reg. 12160, effective July 29, 1994; amended in R94-17 at 18 Ill. Reg. ._____, effective November 23, 1994; amended in R95-6 at 19 Ill. Reg. ._____, effective

SUBPART B: DEFINITIONS

Section 720.111 References

a) The following publications are incorporated by reference:

ANSI. Available from the American National Standards Institute, 1430 Broadway, New York, New York 10018, 212-354-3300:

ANSI B31.3 and B31.4. See ASME/ANSI B31.3 and B31.4

ACI. Available from the American Concrete Institute, Box 19150, Redford Station, Detroit, Michigan 48219:

ACI 318-83: "Building Code Requirements for Reinforced Concrete", adopted September, 1983.

API. Available from the American Petroleum Institute, 1220 L Street, N.W., Washington, D.C. 20005, 202-682-8000:

> "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems", API Recommended Practice 1632, Second Edition, December, 1987.

> "Evaporative Loss from External Floating-Roof Tanks", API Publication 2517, Third Edition, February, 1989.

"Guide for Inspection of Refinery Equipment, Chapter XIII, Atmospheric and Low Pressure Storage Tanks," 4th Edition, 1981, reaffirmed December, 1987.

"Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems," API Recommended Practice 1632, Second Edition, December, 1987.

"Installation of Underground Petroleum Storage Systems," API Recommended Practice 1615, Fourth Edition, November, 1987.

APTI. Available from the Air and Waste Management Association, Box 2861, Pittsburgh, PA 15230, 412-232-3444:

> APTI Course 415: Control of Gaseous Emissions, U.S. EPA Publication EPA-450/2-81-005, December, 1981.

ASME. Available from the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017, 212-705-7722:

"Chemical Plant and Petroleum Refinery Piping", ASME/ ANSI B31.3-1987, as supplemented by B31.3a-1988 and B31.3b-1988. Also available from ANSI.

"Liquid Transportation Systems for Hydrocarbons, Liquid Petroleum Gas, Anhydrous Ammonia, and Alcohols", ASME/ANSI B31.4-1986, as supplemented by B31.4a-1987. Also available from ANSI.

ASTM. Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, 215-299-5400:

ASTM C_94-90, Standard Specification for Ready-Mixed Concrete, approved March 30, 1990.

ASTM D_88-87, Standard Test Method for Saybolt Viscosity, April 24, 1981, reapproved January, 1987.

ASTM D_93-85, Standard Test Methods for Flash Point by Pensky-Martens Closed Tester, approved October 25, 1985.

ASTM D_1946-90, Standard Practice for Analysis of Reformed Gas by Gas Chromatography, Approved March 30, 1990.

ASTM D_2161-87, Standard Practice for Conversion of Kinematic Viscosity to Saybolt Universal or to Saybolt Furol Viscosity, March 27, 1987.

ASTM D_2267-88, Standard Test Method for Aromatics in Light Naphthas and Aviation Gasolines by Gas Chromatography, approved November 17, 1988.

ASTM D_2382-88, Standard Test Method for Heat of Combustion of Hydrocarbon Fuels by Bomb Calorimeter (High Precision Method), approved October 31, 1988.

ASTM D_2879-86, Standard Test Method for Vapor Pressure-Temperature Relationship and Initial Decomposition Temperature of Liquids by Isoteniscope, approved October 31, 1986.

ASTM D 2879-92, Standard Test Method for Vapor Pressure-Temperature Relationship and Initial Decomposition Temperature of Liquids by Isoteniscope, approved 1992.

ASTM D_3828-87, Standard Test Methods for Flash Point of Liquids by Setaflash Closed Tester, approved December 14, 1988.

ASTM E_168-88, Standard Practices for General Techniques of Infrared Quantitative Analysis, approved May 27, 1988.

ASTM E_169-87, Standard Practices for General

Techniques of Ultraviolet-Visible Quantitative Analysis, approved February 1, 1987.

ASTM E_260-85, Standard Practice for Packed Column Gas Chromatography, approved June 28, 1985.

ASTM E_926-88 C, Standard Test Methods for Preparing Refuse-Derived Fuel (RDF) Samples for Analysis of Metals, Bomb-Acid Digestion Method, approved March 25, 1988.

ASTM Method G_21-70 (1984a) -- Standard Practice for Determining Resistance of Synthetic Polymer Materials to Fungi

ASTM Method G_22-76 (1984b) -- Standard Practice for Determining Resistance of Plastics to Bacteria.

GPO. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, 202-783-3238:

Standard Industrial Classification Manual (1972), and 1977 Supplement, republished in 1983

"Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods," U.S. EPA Publication number SW-846 (Third Edition, November, 1986), as amended by Updates I and IIA (Document Number 955-001-00000-1) (contact U.S. EPA, Office of Solid Waste, or MICE, as indicated below, for Update IIA).

MICE. Available from Methods Information Communication Service, at 703-821-4789:

"Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods," U.S. EPA Publication number SW-846 (Third Edition, November, 1986), Update IIA (Document Number 955-001-00000-1) (contact GPO, as indicated above, for SW-846 and Update I).

NACE. Available from the National Association of Corrosion Engineers, 1400 South Creek Dr., Houston, TX 77084, 713-492-0535:

> "Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems", NACE Recommended Practice RP0285-85, approved March, 1985.

NFPA. Available from the National Fire Protection Association, Batterymarch Park, Boston, MA 02269, 617-770-3000 or 800-344-3555:

"Flammable and Combustible Liquids Code" NFPA 30, issued July 17, 1987. Also available from ANSI.

NTIS. Available from the U.S. Department of Commerce, National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, 703-487-4600:

"Generic Quality Assurance Project Plan for Land

Disposal Restrictions Program", EPA/530-SW-87-011, March 15, 1987. (Document number PB 88-170766.)

"Guidance on Air Quality Models", Revised 1986. (Document number PB86-245-248 (Guideline) and PB88-150-958 (Supplement)).

"Methods for Chemical Analysis of Water and Wastes", Third Edition, March, 1983. (Document number PB 84-128677).

"Methods Manual for Compliance with BIF Regulations", December, 1990. (Document number PB91-120-006).

"Petitions to Delist Hazardous Wastes -- A Guidance Manual", EPA/530-SW-85-003, April, 1985. (Document Number PB 85-194488).

"Procedures Manual for Ground Water Monitoring at Solid Waste Disposal Facilities", EPA-530/SW-611, 1977. (Document number PB 84-174820).

"Screening Procedures for Estimating the Air Quality Impact of Stationary Sources", October, 1992, Publication Number EPA-450/R-92-019.

STI. Available from the Steel Tank Institute, 728 Anthony Trail, Northbrook, IL 60062, 708-498-1980:

"Standard for Dual Wall Underground Steel Storage Tanks" (1986).

U.S. EPA. Available from United States Environmental Protection Agency, Office of Drinking Water, State Programs Division, WH 550 E, Washington, D.C. 20460:

"Technical Assistance Document: Corrosion, Its Detection and Control in Injection Wells", EPA 570/9-87-002, August, 1987.

U.S. EPA. Available from U.S. EPA, Office of Solid Waste (Mail Code 5304), 401 M Street SW, Washington, D.C. 20460:

"Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods," U.S. EPA Publication number SW-846 (Third Edition, November, 1986), Update IIA (Document Number 955-001-00000-1) (contact GPO, as indicated above, for SW-846 and Update I).

U.S. EPA. Available from U.S. EPA, Number F-90-WPWF-FFFFF, Room M2427, 401 M Street SW, Washington, D.C. 20460, 202-475-9327:

"Test Method 8290: Procedures for the Detection and Measurement of PCDDs and PCDFs", EPA/530-SW-91-019 (January, 1991)

U.S. EPA. Available from Receptor Analysis Branch, U.S. EPA (MD-14), Research Triangle Park, NC 27711:

"Screening Procedures for Estimating the Air Quality Impact of Stationary Sources, Revised", October, 1992, Publication Number EPA-450/R-92-019.

b) Code of Federal Regulations. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20401, 202-783-3238:

> 10 CFR 20, Appendix B (19924) 40 CFR 51.100(ii) (19924) 40 CFR 51, Subpart W, as added at 58 Fed. Reg. 38822 (July 20, 1993 (1994) 40 CFR 60 (19934), as amended at 59 Fed. Req. 62924 (Dec. 6, 1994) 40 CFR 61, Subpart V (19934) 40 CFR 136 (19934) 40 CFR 142 (19934) 40 CFR 220 (19924) 40 CFR 260.20 (19924) 40 CFR 264 (19924) 40 CFR 268. Appendix IX (19924) 40 CFR 302.4, 302.5 and 302.6 (19924) 40 CFR 761 (19934) 49 CFR 178 (1994)

c) Federal Statutes

Section 3004 of the Resource Conservation and Recovery Act (42 U.S.C. 6901 et seq.), as amended through December 31, 1987.

d) This Section incorporates no later editions or amendments.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART C: RULEMAKING PETITIONS AND OTHER PROCEDURES

Section 720.121 Alternative Equivalent Testing Methods

- a) The Agency has no authority to alter the universe of regulated wastes. Modification of testing methods which that are stated in Part35 Ill. Adm. Code 721 requires rulemaking pursuant to Section 720.120. However, deviation from these methods is allowed under the express provisions of Part35 Ill. Adm. Code 721, as for example in Sectionby 35 Ill. Adm. Code 721.120(c).
- b) The Agency may approve alternative equivalent testing methods to befor a particular person's used by a certain person to determine whether specified types of waste streams are subject to these regulations. This shall be done by permit condition or by a letter directed to the person.

- c) The Board does not intend to require that either the testing methods specified in Part35 Ill. Adm. Code 721 or the alternative equivalent testing methods approved by the Agency shouldneed not be applied to identify or distinguish waste streams which that are known, admitted, or assumed to be subject to these regulations. In this case, any method may be used, subject to the Agency's authority over testing procedures (Section 725.113).
- d) Any petition to the Board or request to the Agency concerning alternative equivalent testing methods shallmust include the information required by 40 CFR Section 260.21(b).
- e) Alternative equivalent testing methods will not be approved if the result <u>of the approval</u> would make the Illinois <u>RCRA Subtitle C</u> program less than substantially equivalent to the federal.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 720.130 Procedures for Solid Waste Determinations

In accordance with the standards and criteria in Section 720.131 and the procedures in Section 720.133, the Board will determine on a case-by-case basis that the following recycled materials are not solid wastes:

- a) Materials that are accumulated speculatively without sufficient amounts being recycled (as defined in Section 721.101(c)(8))+;
- b) Materials that are reclaimed and then reused within the original primary production process in which they were generated; and
- c) Materials that have been reclaimed but must be reclaimed further before the materials are completely recovered.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 720.131 Solid Waste Determinations

- a) The Board will determine that those materials that are accumulated speculatively without sufficient amounts being recycled are not solid wastes if the applicant demonstrates that sufficient amounts of the material will be recycled or transferred for recycling in the following year. Such a determination is valid only for the following year, but can be renewed, on an annual basis, by filing a new application. This determination will be based on the following criteria:
 - The manner in which the material is expected to be recycled, when the material is expected to be recycled, and whether this expected disposition is likely to occur (for example, because of past practice, market factors, the nature of the material or contractual arrangements for recycling);
 - 2) The reason that the applicant has accumulated the material for one or more years without recycling 75 percent of the volume accumulated at the beginning of the year;
 - 3) The quantity of material already accumulated and the quantity expected to be generated and accumulated before the material is recycled;
 - 4) The extent to which the material is handled to minimize loss; and

- 5) Other relevant factors.
- b) The Board will determine that those materials that are reclaimed and then reused as feedstock within the original primary production process in which the materials were generated are not solid wastes if the reclamation operation is an essential part of the production process. This determination will be based on the following criteria:
 - How economically viable the production process would be if it were to use virgin materials, rather than reclaimed materials;
 - 2) The prevalence of the practice on an industry-wide basis;
 - The extent to which the material is handled before reclamation to minimize loss;
 - 4) The time periods between generating the material and its reclamation, and between reclamation and return to the original primary production process;
 - 5) The location of the reclamation operation in relation to the production process;
 - 6) Whether the reclaimed material is used for the purpose for which it was originally produced when it is returned to the original process, and whether it is returned to the process in substantially its original form;
 - 7) Whether the person whothat generates the material also reclaims it; and
 - 8) Other relevant factors.
- c) The Board will determine that those materials that have been reclaimed but must be reclaimed further before recovery is completed are not solid wastes if, after initial reclamation, the resulting material is commodity-like (even though it is not yet a commercial product, and has to be reclaimed further). This determination will be based on the following criteria:
 - 1) The degree of processing the material has undergone and the degree of further processing that is required;
 - The value of the material after it has been reclaimed;
 - 3) The degree to which the reclaimed material is like an analogous raw material;
 - 4) The extent to which an end market for the reclaimed material is guaranteed;
 - 5) The extent to which the reclaimed material is handled to minimize loss; and
 - 6) Other relevant factors.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION

SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 721

IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SUBPART A: GENERAL PROVISIONS

	SUBPART A: GENERAL PROVISIONS
Section	
721,101	Purpose and Scope
721.102	Definition of Solid Waste
721.103	Definition of Hazardous Waste
721.104	Exclusions
721.105	Special Requirements for Hazardous Waste Generated by Small
721.105	Quantity Generators
721.106	Requirements for Recyclable Materials
721.107	Residues of Hazardous Waste in Empty Containers
721.108	PCB Wastes Regulated under TSCA
/21.100	TOD WADLES REGULATED WHAT IDON
	SUBPART B: CRITERIA FOR IDENTIFYING THE CHARACTERISTICS OF HAZARDOUS WASTE AND FOR LISTING HAZARDOUS WASTES
Section	
721.110	Criteria for Identifying the Characteristics of Hazardous Waste
721.111	Criteria for Listing Hazardous Waste
	SUBPART C: CHARACTERISTICS OF HAZARDOUS WASTE
Section	
721.120	General
721.121	Characteristic of Ignitability
721.122	Characteristic of Corrosivity
721.123	Characteristic of Reactivity
721.124	Toxicity Characteristic
	SUBPART D: LISTS OF HAZARDOUS WASTE
Section	
721.130	General
721.131	Hazardous Wastes From Nonspecific Sources
721.132	Hazardous Waste from Specific Sources
721.133	Discarded Commercial Chemical Products, Off-Specification Species,
	Container Residues, and Spill Residues Thereof
721.135	Wood Preserving Wastes
721.Append	
721.Append	• •
	(TCLP)
721.Append	
Tabl	
Tabl	
Tabl	
721.Append	
721.Append	
721.Append	
	Administrative Action
Tabl	
	from Non-Specific Sources
Tabl	
	from Specific Sources
Tabl	
	fFrom Commercial Chemical Products, Off-Specification
	Species, Container Residues, and Soil Residues Thereof
Tabl	
721.Append	ix J Method of Analysis for Chlorinated Dibenzo-p-Dioxins and

Dibenzofurans (Repealed)721.Appendix ZTable to Section 721.102

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106May 17, 1982; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code as noted in 35 Ill. Adm. Code 700.106 May 17, 1982; amended in R82-18, 51 PCB 31, at 7 Ill. Reg. 2518, effective February 22, 1983; amended in R82-19, 53 PCB 131, at 7 Ill. Reg. 13999, effective October 12, 1983; amended in R84-34, 61 PCB 247, at 8 Ill. Reg. 24562, effective December 11, 1984; amended in R84-9, at 9 Ill. Reg. 11834, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 998, effective January 2, 1986; amended in R85-2 at 10 Ill. Reg. 8112, effective May 2, 1986; amended in R86-1 at 10 Ill. Reg. 14002, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg. 20647, effective December 2, 1986; amended in R86-28 at 11 Ill. Reg. 6035, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13466, effective August 4, 1987; amended in R87-32 at 11 Ill. Reg. 16698, effective September 30, 1987; amended in R87-5 at 11 Ill. Reg. 19303, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2456, effective January 15, 1988; amended in R87-30 at 12 Ill. Reg. 12070, effective July 12, 1988; amended in R87-39 at 12 Ill. Reg. 13006, effective July 29, 1988; amended in R88-16 at 13 Ill. Reg. 382, effective December 27, 1988; amended in R89-1 at 13 Ill. Reg. 18300, effective November 13, 1989; amended in R90-2 at 14 Ill. Reg. 14401, effective August 22, 1990; amended in R90-10 at 14 Ill. Reg. 16472, effective September 25, 1990; amended in R90-17 at 15 Ill. Reg. 7950, effective May 9, 1991; amended in R90-11 at 15 Ill. Reg. 9332, effective June 17, 1991; amended in R91-1 at 15 Ill. Reg. 14473, effective September 30, 1991; amended in R91-12 at 16 Ill. Reg. 2155, effective January 27, 1992; amended in R91-26 at 16 Ill. Reg. 2600, effective February 3, 1992; amended in R91-13 at 16 Ill. Reg. 9519, effective June 9, 1992; amended in R92-1 at 16 Ill. Reg. 17666, effective November 6, 1992; amended in R92-10 at 17 Ill. Reg. 5650, effective March 26, 1993; amended in R93-4 at 17 Ill. Reg. 20568, effective November 22, 1993; amended in R93-16 at 18 Ill. Reg. 6741, effective April 26, 1994; amended in R94-7 at 18 Ill. Reg. 12175, effective July 29, 1994; amended in R94-17 at 18 Ill. Reg. 17490, effective November 23, 1994; amended in R95-6 at 19 Ill. Reg. effective

SUBPART A: GENERAL PROVISIONS

Section 721.102 Definition of Solid Waste

- a) Solid waste.
 - A solid waste is any discarded material that is not excluded by Section 721.104(a) or that is not excluded pursuant to 35 Ill. Adm. Code 720.130 and 720.131.
 - 2) A discarded material is any material which that is:
 - A) Abandoned, as explained in subsection (b) τ below; or
 - B) Recycled, as explained in subsection $(c)_{\tau}$ below; or
 - C) Considered inherently waste-like, as explained in subsection $(d)_{\tau}$ below.
- b) Materials are solid waste if they are abandoned by being:

- 1) Disposed of; or
- 2) Burned or incinerated; or
- 3) Accumulated, stored or treated (but not recycled) before or in lieu of being abandoned by being disposed of, burned or incinerated.
- c) Materials are solid wastes if they are recycled--or accumulated, stored or treated before recycling--as specified in subsections (c)(1) through $(c)(4)_{\tau}$ below_{τ} if they are:
 - 1) Used in a manner constituting disposal.
 - A) Materials noted with a "yes" in column 1 of table in Section 721.Appendix Z are solid wastes when they are:
 - i) Applied to or placed on the land in a manner that constitutes disposal; or
 - Used to produce products that are applied to or placed on the land or are otherwise contained in products that are applied to or placed on the land (in which cases the product itself remains a solid waste).
 - B) However, commercial chemical products listed in Section 721.133 are not solid wastes if they are applied to the land and that is their ordinary manner of use.
 - 2) Burned for energy recovery.
 - A) Materials noted with a "yes" in column 2 of table in Section 721.Appendix 2 are solid wastes when they are:
 - i) burned to recover energy;
 - ii) Used to produce a fuel or are otherwise contained in fuels (in which case the fuel itself remains a solid waste);
 - iii) Contained in fuels (in which case the fuel itself remains a solid waste).
 - B) However, commercial chemical products listed in Section 721.133 are not solid wastes if they are themselves fuels.
 - 3) Reclaimed. Materials noted with a "yes" in column 3 of table in Section 721.Appendix Z are solid wastes when reclaimed.
 - 4) Accumulated speculatively. Materials noted with "yes" in column 4 of table in Section 721.Appendix Z are solid wastes when accumulated speculatively.
- d) Inherently waste-like materials. The following materials are solid wastes when they are recycled in any manner:
 - Hazardous waste numbers F020, F021 (unless used as an ingredient to make a product at the site of generation),

- 2) Secondary materials fed to a halogen acid furnace that exhibit a characteristic of a hazardous waste or are listed as a hazardous waste as defined in <u>721.Subparts C or D</u>, except for brominated material which that meets the following criteria:
 - A) The material must contain a bromine concentration of at least 45%; and
 - B) The material must contain less than a total of 1% of toxic organic compounds listed in Section 721.Appendix H; and
 - C) The material is processed continually on-site in the halogen acid furnace via direct conveyance (hard piping).
- 3) The following criteria are used to add wastes to the list:
 - A) Disposal method or toxicity.
 - i) The materials are ordinarily disposed of, burned, or incinerated; or
 - ii) The materials contain toxic constituents listed in Section 721.Appendix H and these constituents are not ordinarily found in raw materials or products for which the materials substitute (or are found in raw materials or products in smaller concentrations) and are not used or reused during the recycling process; and
 - B) The material may pose a substantial hazard to human health and the environment when recycled.
- e) Materials that are not solid waste when recycled.
 - Materials are not solid wastes when they can be shown to be recycled by being:
 - A) Used or reused as ingredients in an industrial process to make a product, provided the materials are not being reclaimed; or
 - B) Used or reused as effective substitutes for commercial products; or
 - C) Returned to the original process from which they are generated, without first being reclaimed. The materials must be returned as a substitute for raw materials feedstock materials, and the process must use raw materials as principal feedstocks. In cases where the original process to which the material is returned is a secondary process, the materials must be managed so there is no placement on the land.
 - 2) The following materials are solid wastes, even if the recycling involves use, reuse, or return to the original process (described in subsections (e)(1)(A) -<u>through</u> (e)(1)(C), above):

- A) Materials used in a manner constituting disposal₇ or used to produce products that are applied to the land; or
- B) Materials burned for energy recovery, used to produce a fuel, or contained in fuels; or
- C) Materials accumulated speculatively; or
- D) Materials listed in subsections (d)(1) and $(d)(2)_{\tau}$ above.
- f) Documentation of claims that materials are not solid wastes or are conditionally exempt from regulation. Respondents in actions to enforce regulations implementing Subtitle C of the Resource Conservation Recovery Act or Section 21 of the Environmental Protection Act whothat raise a claim that a certain material is not a solid waster or that the material is conditionally exempt from regulation must demonstrate that there is a known market or disposition for the material, and that they meet the terms of the exclusion or exemption. In doing so, they person must provide appropriate documentation (such as contracts showing that a second person uses the material as an ingredient in a production process) to demonstrate that the material is not a waster or that the material is exempt from regulation. In addition, owners or operators of facilities claiming that they actually are recycling materials must show that they have the necessary equipment to do so.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 721.103 Definition of Hazardous Waste

- a) A solid waste, as defined in Section 721.102, is a hazardous waste if:
 - It is not excluded from regulation as a hazardous waste under Section 721.104(b); and
 - 2) It meets any of the following criteria:
 - A) It exhibits any of the characteristics of hazardous waste identified in <u>721.Subpart C-of this Part</u>.
 - <u>i)</u> Except that any mixture of a waste from the extraction, beneficiation, or processing of ores or minerals excluded under Section 721.104(b)(7) and any other solid waste exhibiting a characteristic of hazardous waste under 721.Subpart C of this Part is a hazardous waste only: if it exhibits a characteristic that would not have been exhibited by the excluded waste alone if such mixture had not occurred; or, if it continues to exhibit any of the characteristics exhibited by the non-excluded wastes prior to mixture.
 - ii) Further, for the purposes of applying the toxicity characteristic to such mixtures <u>under</u> <u>subsection (a)(2)(A)(i) above</u>, the mixture is also a hazardous waste: if it exceeds the maximum concentration for any contaminant listed

in Section 721.124 that would not have been exceeded by the excluded waste alone if the mixture had not occurred τ_{\perp} or τ if it continues to exceed the maximum concentration for any contaminant exceeded by the nonexempt waste prior to mixture.

- B) It is listed in <u>721.Subpart D of this Part</u> and has not been excluded from the lists in <u>721.Subpart D of this</u> Part under 35 Ill. Adm. Code 720.120 and 720.122.
- C) It is a mixture of a solid waste and a hazardous waste that is listed in <u>721.</u>Subpart D of this Part solely because it exhibits one or more of the characteristics of hazardous waste identified in <u>721.</u>Subpart C of this Part, unless:
 - the resultant mixture no longer exhibits any characteristic of hazardous waste identified in <u>721.</u>Subpart C-of this Part, or unless
 - ii) the solid waster is excluded from regulation under Section 721.104(b)(7); and, the resultant mixture no longer exhibits any characteristic of hazardous waste identified in <u>721.Subpart C-of</u> this Part for which the hazardous waste listed in <u>721.Subpart D-of-this Part</u> was listed.
 - <u>iii)</u> (However, <u>nN</u>onwastewater mixtures are still subject to the requirements of 35 Ill. Adm. Code 728, even if they no longer exhibit a characteristic at the point of land disposal).
- D) It is a mixture of solid waste and one or more hazardous wastes listed in <u>721.</u>Subpart D of this Part and has not been excluded from this subsection (a)(2) under 35 Ill. Adm. Code 720.120 and 720.122; however, the following mixtures of solid wastes and hazardous wastes listed in <u>721.</u>Subpart D of this Part are not hazardous wastes (except by application of subsection (a)(2)(A) or <u>(a)(2)(B)</u> above) if the generator demonstrates that the mixture consists of wastewater the discharge of which is subject to regulation under either 35 Ill. Adm. Code 309 or 310 (including wastewater at facilities which that have eliminated the discharge of wastewater) and:
 - i) One or more of the following solvents listed in Section 721.131: - carbon tetrachloride, tetrachloroethylene, trichloroethylene, --provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pretreatment system does not exceed 1 part per million; or
 - ii) One or more of the following spent solvents listed in Section 721.131: - methylene chloride, 1,1,1 - trichloroethane, chlorobenzene, o-dichlorobenzene, cresols, cresylic acid,

nitrobenzene, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, spent chlorofluorocarbon solvents, --provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pretreatment system does not exceed 25 parts per million; or

- iii) One of the following wastes listed in Section 721.132: - heat exchanger bundle cleaning sludge from the petroleum refining industry (<u>U.S. EPA</u> Hhazardous Wwaste Nno. K050); or
- A discarded commercial chemical product τ or iv) chemical intermediate listed in Section 721.1337 arising from de minimis losses of these materials from manufacturing operations in which these materials are used as raw materials or are produced in the manufacturing process. For purposes of this subsection, "de minimis" losses include those from normal material handling operations (e.g., spills from the unloading or transfer of materials from bins or other containers, leaks from pipes, valves, or other devices used to transfer materials); minor leaks of process equipment, storage tanks, or containers; leaks from well-maintained pump packings and seals; sample purgings; relief device discharges; discharges from safety showers and rinsing and cleaning of personal safety equipment; and rinsate from empty containers or from containers that are rendered empty by that rinsing; or
- v) Wastewater resulting from laboratory operations containing toxic (T) wastes listed in <u>721.Subpart D of this Part</u>, provided that the annualized average flow of laboratory wastewater does not exceed one percent of total wastewater flow into the headworks of the facility's wastewater treatment or pretreatment system, or provided that the wastes combined annualized average concentration does not exceed one part per million in the headworks of the facility's wastewater treatment or pretreatment facility. Toxic (T) wastes used in laboratories that are demonstrated not to be discharged to wastewater are not to be included in this calculation.
- E) Rebuttable presumption for used oil. Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in <u>721.</u>Subpart D-of-this Part. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by using an analytical method from SW-846, 3d edv, incorporated by reference at 35 Ill. Adm. Code 720.111, to show that the used oil does not contain be a solution of the significant

concentrations of halogenated hazardous constituents listed in 721. Appendix H).

- i) The rebuttable presumption does not apply to metalworking oils or fluids containing chlorinated paraffins, if they are processed, through a tolling arrangement as described in 35 Ill. Adm. Code 739.124(c), to reclaim metalworking oils or fluids. The presumption does apply to metalworking oils or fluids if such oils or fluids are recycled in any other manner, or disposed.
- ii) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.
- b) A solid waste whichthat is not excluded from regulation under subsection (a)(1) above becomes a hazardous waste when any of the following events occur:
 - In the case of a waste listed in <u>721.Subpart D of this Part</u>, when the waste first meets the listing description set forth in <u>721.Subpart D of this Part</u>.
 - 2) In the case of a mixture of solid waste and one or more listed hazardous wastes, when a hazardous waste listed in <u>721.Subpart D-of this Part</u> is first added to the solid waste.
 - 3) In the case of any other waste (including a waste mixture), when the waste exhibits any of the characteristics identified in <u>721.Subpart C-of-this Part</u>.
- c) Unless and until it meets the criteria of subsection (d) below+, a hazardous waste will remain a hazardous waste.

BOARD NOTE: This subsection corresponds with 40 CFR 261.3(c)(1). The Board has codified 40 CFR 261.3(c)(2) at subsection (e) below.

1) A hazardous waste will remain a hazardous waste.

- 2) Specific inclusions and exclusions.
 - A) Except as otherwise provided in subsection (c)(2)(B) below, any solid waste generated from the treatment, storage or disposal of a hazardous waste, including any sludge, spill residue, ash, emission control dust or leachate (but not including precipitation run-off), is a hazardous waste. (However, materials that are reclaimed from solid wastes and that are used beneficially are not solid wastes and hence are not hazardous wastes under this provision unless the reclaimed material is burned for energy recovery or used in a manner constituting disposal.)

B) The following solid wastes are not hazardous even

though they are generated from the treatment, storage or disposal of a hazardous waste, unless they exhibit one or more of the characteristics of hazardous waster

- 1) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (SIC Codes 331 and 332) (Standard Industrial Codes, as defined and incorporated by reference in 35 Ill. Adm. Code 720.110 and 720.111).
- ii) Wastes from burning any of the materials exempted from regulation by Section 721.106(a)(3)(E), (F), (C) or(H).
- iii) Nonwastewater residues, such as slag, resulting from high temperature metal recovery (HTMR) processing of K061, K062 or F006 waste, in units identified, that are disposed of in nonhazardous waste units, provided that these residues meet the generic exclusion levels identified in the tables in this subsection for all constituents, and exhibit no characteristics of hazardous waste. The types of units are. rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations or the following types of industrial furnaces (as defined in 35 Ill. Adm. Code 720.110): blast furnaces, smelting, melting and refining furnaces (including pyrometallurgical devices such as supplas, reverberator furnages, sintering machines, reasters and foundry furnaces), and other furnaces designated by the Agency pursuant to that definition. Testing requirements must be incorporated in a facility's waste analysis plan or a generator's self-implementing waste analysis plan; at a minimum, composite samples of residues must be collected and analyzed guarterly and when the process or operation generating the waste changes. Persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements. The generic exclusion levels are:

Constituent Maximum for any single composite sample (mg/L)

Ceneric exclusion levels for KO61 and KO62 nonwastewater HTMR residues.

Antimony	-0.10
Arcenio	-0.50
Barium	
Beryllium	0 010
Gadmium	0.010
	-0.33
Chromium (total)	
Lead	0.15
Mercury	0.009
Nickel	

Selenium	
	0.10
Silver	<u>0.30</u>
Thallium	0.020
Vanadium	
Vunduzum	1.20
Zine	70
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Ceneric exclusion levels for F006 nonwastewater

Antimony	-0.10
Areenie	-0.50
Barium	-7.6
Beryllium	-0.010
Cadmium	-0.050
	-0.33
	0.00
Cyanide (total) (mg/kg)	-1.8
Lead	-0.15
Hercury	0.009
Nickel	-1.0
Selenium	-0.16
Cilior	20
Silver	-0.30
Silver	-0.30 -0.020
	0.00

A one-time notification and certification must be placed in the facility's files and sent to the Agency (or, for out-of-State shipments, to the appropriate Regional Administrator of USEPA or state agency authorized to implement 40 CFR 268 requirements) for K061, K062 or F006 HTMR residues that meet the generic exclusion levels for all constituents and do not exhibit any characteristics that are sent to RCRA Subtitle D units. The notification and certification that is placed in the generators or treaters files must be updated if the process or operation generating the waste changes or if the RGRA Subtitle D unit receiving the waste changes. However, the generator or treater need only notify the Agency on an annual basis if such changes occur. Such notification and certification should be sent to the Agency by the end of the calendar year, but no later than December 31. The notification must include the following information: The name and address of the nonhazardous waste management unit receiving the waste shipment; The USEPA hasardous waste number and treatability group at the initial point of generation; The treatment standards applicable to the waste at the initial point of generation. The certification must be signed by an authorized representative and must state as follows:

"I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penaltics for submitting a false certification, including the possibility of fine and imprisonment." BOARD NOTE: The generic exclusion levels for arsenic and zinc are higher than the HTMR based alternative treatment standards for KO62 and FOO6, and HTMR based treatment standards for KO61, specified in 35 Ill. Adm. Code 728.141. However, the HTMR residues must meet the applicable treatment standards prior to generic exclusion. Therefore, to be eligible for a generic exclusion, the treated residues must meet the lower of either the treatment standards or the generic exclusion levels for each constituent.

- d) Any solid waste described in subsection (c) above is not a hazardous waste if it meets the following criteria:
 - 1) In the case of any solid waste, it does not exhibit any of the characteristics of hazardous waste identified in <u>721.Subpart C of this Part</u>. (However, wastes whichthat exhibit a characteristic at the point of generation may still be subject to the requirements of 35 Ill. Adm. Code 728, even if they no longer exhibit a characteristic at the point of land disposal.)
 - 2) In the case of a waste whichthat is a listed waste under <u>721.Subpart D of this Part</u>, <u>a waste that</u> contains a waste listed under <u>721.Subpart D of this Part</u>, or <u>a waste that</u> is derived from a waste listed in <u>721.Subpart D of this Part</u>, it also has been excluded from subsection (c) above under 35 Ill. Adm. Code 720.120 and 720.122.
- e) This subsection corresponds with 40 CFR 261.3(c), a subsection which has been deleted from the federal regulations. This statement maintains structural consistency with USEPA rulesSpecific inclusions and exclusions.
 - 1) Except as otherwise provided in subsection (e)(2) below, any solid waste generated from the treatment, storage, or disposal of a hazardous waste, including any sludge, spill residue, ash, emission control dust, or leachate (but not including precipitation run-off), is a hazardous waste. (However, materials that are reclaimed from solid wastes and that are used beneficially are not solid wastes and hence are not hazardous wastes under this provision unless the reclaimed material is burned for energy recovery or used in a manner constituting disposal.)
 - 2) The following solid wastes are not hazardous even though they are generated from the treatment, storage, or disposal of a hazardous waste unless they exhibit one or more of the characteristics of hazardous waste:
 - A) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (SIC Codes 331 and 332).
 - B) Wastes from burning any of the materials exempted from regulation by any of Section 721.106(a)(3)(D) through (a)(3)(F).
 - C) Nonwastewater residues, such as slag, resulting from high temperature metal recovery (HTMR) processing of

- K061, K062, or F006 waste in the units identified in this subsection that are disposed of in non-hazardous waste units, provided that these residues meet the generic exclusion levels identified in the tables in this subsection for all constituents and the residues exhibit no characteristics of hazardous waste. The types of units identified are rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations, or the following types of industrial furnaces (as defined in 35 Ill. Adm. Code 720.110): blast furnaces, smelting, melting and refining furnaces (including pyrometallurgical devices such as cupolas, reverberator furnaces, sintering machines, roasters, and foundry furnaces), and other furnaces designated by the Agency pursuant to that definition.
- (i) Testing requirements must be incorporated in a facility's waste analysis plan or a generator's self-implementing waste analysis plan; at a minimum, composite samples of residues must be collected and analyzed quarterly and when the process or operation generating the waste changes.
- (ii) Persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements. The generic exclusion levels are:

<u>Constituent</u> <u>Maximum for any single</u> <u>composite sample (mg/L)</u>

Generic exclusion levels for K061 and K062 nonwastewater HTMR residues.

Antimony	•			•		•	•			•		•	•	0.10
Arsenic .			•	•	•	•	•	•	•	٠	•	•	•	0.50
Barium .									•		•	•	•	7.6
Beryllium	•		•	•	•	•		•	•	•	•	•	•	0.010
Cadmium .	•	٠	•	•		•	•	•		•	٠	•	•	0.050
Chromium	(to	ota	1	2	•	•	•	•	•	•	•	•	•	0.33
Lead	•	•	٠	•	•	•	٠	•	•	•	•	•	•	0.15
Mercury .	٠	•	•	•	•	•	•		•		•	•	•	0.009
Nickel .	•	•		•			•	•	•		•	•	•	1.0
Selenium	٠	•	•	•	•	•	•	•	•	•	•	٠	•	0.16
<u>Silver</u> .	•	•	•	•	•	•	•	٠	•	•	•	٠	•	0.30
<u>Thallium</u>	•			•	•	•	•	•	•	•	•	•	•	0.020
<u>Vanadium</u>	•	•	٠	•	•	•	•	•	•	•	•	•	•	1.26
Zinc	•	•	•	٠	•		•	•		٠		•	•	<u>70.</u>
<u>Generic e</u>	<u>xc</u>	lus	sig	on	10	eve	215	3 1	Eoi	<u> </u>	70()6	noi	<u>nwastewater</u>
HTMR resi	due	29												
Antimony	•	•		•			•					٠	•	0.10
Arsenic .	٠	•	•	•		٠	•		•	•	•	•	•	0.50
Barium .	•	•	•	•		•	•		•	•	•	•	٠	7.6
Beryllium			•	•				٠				•	•	0.010
Cadmium .	•	•	•	•	•		•	•			•	•	•	0.050
Chromium	(t(ota	<u>1</u>	L	•	•		•	•	•	•	•	•	0.33
Cyanide (tot	ta	1)	(r	nq,	/kc	1)	•					•	1.8

Lead	•	•	•	•	٠	•	•	•	•	•	•	•	•	0.15
Mercury .	•	•	•	•	•	•	•	•	•	•	•	•	•	<u>0.009</u>
Nickel .	•	•	•	•	•	•	•	•	•	٠	•	•	•	1.0
<u>Selenium</u>	٠	•	•	•	•	•	•	•	٠	٠	•	•	•	0.16
<u>Silver</u> .	•	•	•	•	٠	•	•	•	•	٠	•	•	•	<u>0.30</u>
<u>Thallium</u>	•	•	•	•	•	•	•	•	•	•	•	٠	•	0.020
<u>Zinc</u>	•	•	•	•	•	•	•	•	٠	•	•		•	<u>70.</u>

(iii) A one-time notification and certification must be placed in the facility's files and sent to the Agency (or, for out-of-State shipments, to the appropriate Regional Administrator of U.S. EPA or the state agency authorized to implement 40 CFR 268 requirements) for KO61, KO62, or FO06 HTMR residues that meet the generic exclusion levels for all constituents and do not exhibit any characteristics and which are sent to RCRA Subtitle D (municipal solid waste landfill) units. The notification and certification that is placed in the generator's or treater's files must be updated if the process or operation generating the waste changes or if the RCRA Subtitle D unit receiving the waste changes. However, the generator or treater need only notify the Agency on an annual basis if such changes occur. Such notification and certification should be sent to the Agency by the end of the calendar year, but no later than December 31. The notification must include the following information: the name and address of the nonhazardous waste management unit receiving the waste shipment; the U.S. EPA hazardous waste number and treatability group at the initial point of generation; and the treatment standards applicable to the waste at the initial point of generation. The certification must be signed by an authorized representative and must state as follows:

> "I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

BOARD NOTE: This subsection would normally correspond with 40 CFR 261.3(e), a subsection which has been deleted and marked "reserved" by U.S. EPA. Rather, this subsection corresponds with 40 CFR 261.3(c)(2), which the Board codified here to comport with codification requirements and enhance clarity.

f) Notwithstanding subsections (a) through (de) above and provided the debris, as defined in 35 Ill. Adm. Code 728.102, does not exhibit a characteristic identified at <u>721.Subpart C of this Part</u>, the following materials are not subject to regulation under 35 Ill. Adm. Code 720, 721 to 726, 728, or 730:

- Hazardous debris as defined in 35 Ill. Adm. Code 728.102 that has been treated using one of the required extraction or destruction technologies specified in Table A of 35 Ill. Adm. Code 728.145Table F; persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements; or
- 2) Debris as defined in 35 Ill. Adm. Code 728.102 that the Agency, considering the extent of contamination, has determined is no longer contaminated with hazardous waste.

(Source: Amended at 19 Ill. Reg. , effective _____)

Section 721.104 Exclusions

- a) Materials that are not solid wastes. The following materials are not solid wastes for the purpose of this Part:
 - 1) Sewage:
 - A) Domestic sewage; and
 - B) Any mixture of domestic sewage and other waste that passes through a sewer system to publicly-owned treatment works for treatment.
 - <u>C)</u> "Domestic sewage" means untreated sanitary wastes that pass through a sewer system.
 - 2) Industrial wastewater discharges that are point source discharges with NPDES permits issued by the Agency pursuant to Section 12(f) of the Environmental Protection Act and 35 Ill. Adm. Code 309.

BOARD NOTE: This exclusion applies only to the actual point source discharge. It does not exclude industrial wastewaters while they are being collected, stored, or treated before discharge, nor does it exclude sludges that are generated by industrial wastewater treatment.

- 3) Irrigation return flows.
- 4) Source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.)
- 5) Materials subjected to in-situ mining techniques that are not removed from the ground as part of the extraction process.
- 6) Pulping liquors (i.e., black liquor) that are reclaimed in a pulping liquor recovery furnace and then reused in the pulping process, unless accumulated speculatively, as defined in Section 721.101(c).
- 7) Spent sulfuric acid used to produce virgin sulfuric acid, unless it is accumulated speculatively, as defined in Section 721.101(c).

- 8) Secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process, provided:
 - A) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;
 - B) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces or incinerators);
 - C) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed; and
 - D) The reclaimed material is not used to produce a fuel₇ or used to produce products that are used in a manner constituting disposal.
- 9) Wood preserving wastes.
 - A) Spent wood preserving solutions that have been used and <u>which</u> are reclaimed and reused for their original intended purpose; and
 - B) Wastewaters from the wood preserving process that have been reclaimed and <u>which</u> are reused to treat wood.
- 10) Hazardous waste number<u>s</u> K060, K087, K141, K142, K143, K144, K145, K147, and K148, and any wastes from the coke by-products processes that are hazardous only because they exhibit the toxicity characteristic specified in Section 721.124, when₇ subsequent to generation₇ these materials are recycled to coke ovens, to the tar recovery process as a feedstock to produce coal tar, or are mixed with coal tar prior to the tar's sale or refining. This exclusion is conditioned on there being no land disposal of the wastes from the point theyit are is generated to the point theyit are is recovery, to or the tar refining processes, or prior to when it is mixed with coal.
- 11) Nonwastewater splash condenser dross residue from the treatment of <u>hazardous waste number</u> K061 in high temperature metals recovery units, provided it is shipped in drums (if shipped) and not land disposed before recovery.
- 12) Recovered oil from petroleum refining, exploration, and production and from transportation incident thereto that is to be inserted into the petroleum refining process (SIC Code 2911) along with normal process streams prior to crude distillation or catalytic cracking. This exclusion applies to recovered oil stored or transported prior to insertion, except that the oil must not be stored in a manner involving placement on the land and the oil must not be accumulated speculatively before being recycled. Recovered oil is oil that has been reclaimed from secondary materials (such as wastewater) generated from normal petroleum refining, exploration and production, and transportation practices. Recovered oil includes oil that is recovered from refinery

wastewater collection and treatment systems, oil recovered from oil and gas drilling operations, and oil recovered from wastes removed from crude oil storage tanks. Recovered oil does not include (among other things) oil-bearing hazardous wastes listed in 721.Subpart D (e.g., K048 through K052, F037, and F038). However, oil recovered from such wastes may be considered recovered oil. Recovered oil also does not include used oil as defined in 35 Ill. Adm. Code 739.100.

- b) Solid wastes that are not hazardous wastes. The following solid wastes are not hazardous wastes:
 - 1) Household waste, including household waste that has been collected, transported, stored, treated, disposed, recovered (e.g., refuse-derived fuel), or reused. "Household waste" means any waste material (including garbage, trash, and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels, and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas). A resource recovery facility managing municipal solid waste shall not be deemed to be treating, storing, disposing of, or otherwise managing hazardous wastes for the purposes of regulation under this Part, if such facility:
 - A) Receives and burns only:
 - Household waste (from single and multiple dwellings, hotels, motels, and other residential sources); and
 - ii) Solid waste from commercial or industrial sources that does not contain hazardous waster, and
 - B) Such facility does not accept hazardous waste and the owner or operator of such facility has established contractual requirements or other appropriate notification or inspection procedures to assure that hazardous wastes are not received at or burned in such facility.

BOARD NOTE: The U.S. Supreme Court determined, in City of Chicago v. Envronmental Defense Fund, Inc., no. 92-1639 (May 2, 1994), that this exclusion and RCRA section 3001(i) (42 U.S.C. § 6921(i)) do not exclude the ash from facilities covered by this subsection from regulation as a hazardous waste. At 59 Fed. Reg. 29372 (June 7, 1994), U.S. EPA granted facilities managing ash from such facilities that is determined a hazardous waste under 721.Subpart C until December 7, 1994 to file a Part A permit application pursuant to 35 Ill. Adm. Code 703.181.

- 2) Solid wastes generated by any of the following that are returned to the soil as fertilizers:
 - A) The growing and harvesting of agricultural crops, or
 - B) The raising of animals, including animal manures.

- 3) Mining overburden returned to the mine site.
- 4) Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste generated primarily from the combustion of coal, or other fossil fuels, except as provided in 35 Ill. Adm. Code 726.212 for facilities that burn or process hazardous waste.
- 5) Drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas, or geothermal energy.
- 6) Chromium wastes:
 - A) Wastes that fail the test for the toxicity characteristic (Sections 721.124 and 721.Appendix B) because chromium is present or which are are listed in <u>721.Subpart D of this Part</u> due to the presence of chromium, that do not fail the test for the toxicity characteristic for any other constituent or which are not listed due to the presence of any other constituent, and that do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that:
 - i) The chromium in the waste is exclusively (or nearly exclusively) trivalent chromium; and
 - ii) The waste is generated from an industrial process that uses trivalent chromium exclusively (or nearly exclusively) and the process does not generate hexavalent chromium; and
 - iii) The waste is typically and frequently managed in non-oxidizing environments.
 - B) Specific wastes that meet the standard in subsections (b)(6)(A)(i), (b)(6)(A)(ii), and (b)(6)(A)(iii) above (so long as they do not fail the test for the toxicity characteristic for any other constituent and do not exhibit any other characteristic) are:
 - i) Chrome (blue) trimmings generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling;
 - ii) Chrome (blue) shavings generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; no beamhouse; through-the-blue; and shearling;
 - iii) Buffing dust generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish+, hair save/chrome tan/retan/wet finish+, retan/wet finish+, no beamhouse+, through-the-blue+;

- iv) Sewer screenings generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish_f hair save/chrome tan/retan/wet finish_f no beamhouse_f through-the-blue_f and shearling_f
- v) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish_f hair save/chrome tan/retan/wet finish_f retan/wet finish_f no beamhouse_f through-the-blue_f and shearling_f
- vi) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish_f hair save/chrome tan/retan/wet finish_f and through-the-blue-;
- vii) Waste scrap leather from the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries; and
- viii) Wastewater treatment sludges from the production of titanium dioxide pigment using chromiumbearing ores by the chloride process.
- 7) Solid waste from the extraction, beneficiation, and processing of ores and minerals (including coal, phosphate rock, and overburden from the mining of uranium ore), except as provided by 35 Ill. Adm. Code 726.212 for facilities that burn or process hazardous waste. For purposes of this subsection, beneficiation of ores and minerals is restricted to the following activities: crushing, grinding, washing, dissolution, crystallization, filtration, sorting, sizing, drying, sintering, pelletizing, briquetting, calcining to remove water or carbon dioxide, roasting, autoclaving or chlorination in preparation for leaching (except where the roasting or autoclaving or chlorination and leaching sequence produces a final or intermediate product that does not undergo further beneficiation or processing), gravity concentration, magnetic separation, electrostatic separation, floatation, ion exchange, solvent extraction, electrowinning, precipitation, amalgamation, and heap, dump, vat tank, and in situ leaching. For the purposes of this subsection, solid waste from the processing of ores and minerals includes only the following wastes:
 - A) Slag from primary copper processing+_
 - B) Slag from primary lead processing+_
 - C) Red and brown muds from bauxite refining+
 - D) Phosphogypsum from phosphoric acid production+_
 - E) Slag from elemental phosphorus production+_
 - F) Gasifier ash from coal gasification+L

- G) Process wastewater from coal gasification+_
- H) Calcium sulfate wastewater treatment plant sludge from primary copper processing+L
- I) Slag tailings from primary copper processing+_
- J) Fluorogypsum from hydrofluoric acid production+_
- K) Process wastewater from hydrofluoric acid production+,
- L) Air pollution control dust or sludge from iron blast furnaces_{*T*}
- M) Iron blast furnace slag+_
- N) Treated residue from roasting and leaching of chrome ore+L
- O) Process wastewater from primary magnesium processing by the anhydrous process τ_{\perp}
- P) Process wastewater from phosphoric acid production+L
- Q) Basic oxygen furnace and open hearth furnace air pollution control dust or sludge from carbon steel production+
- R) Basic oxygen furnace and open hearth furnace slag from carbon steel production_f
- S) Chloride processing waste solids from titanium tetrachloride production τ_{L} and τ
- T) Slag from primary zinc smelting.
- Cement kiln dust waste, except as provided by 35 Ill. Adm. Code 726.212 for facilities that burn or process hazardous waste.
- 9) Solid waste that consists of discarded arsenical-treated wood or wood products whichthat fails the test for the toxicity characteristic for hazardous waste codes D004 through D017 and thatwhich is not a hazardous waste for any other reason if the waste is generated by persons whothat utilize the arsenical-treated wood and wood products for these materials' intended end use.
- 10) Petroleum-contaminated media and debris that fail the test for the toxicity characteristic of Section 721.124 (hazardous waste codes D018 through D043 only) and which are subject to corrective action regulations under 35 Ill. Adm. Code 731.
- 11) Injected groundwater that is hazardous only because it exhibits the toxicity characteristic (U.S. EPA hazardous waste codes D018 through D024 only) in Section 721.124 that is reinjected through an underground injection well pursuant to free phase hydrocarbon recovery operations undertaken at petroleum refineries, petroleum marketing terminals petroleum bulk plants, petroleum pipelines, and petroleum spill sites until January 25, 1993. This extension applies

to recovery operations in existence, or for which contracts have been issued, on or before March 25, 1991. For groundwater returned through infiltration galleries from such at petroleum refineries, marketing terminals, and bulk plants, until October 2, 1991. New operations involving injection wells (beginning after March 25, 1991) will qualify for this compliance date extension (until January 25, 1993) only if+This subsection corresponds with 40 CFR 261.4(b)(11), which expired by its own terms on January 25, 1993. This statement maintains structural parity with U.S. EPA regulations.

- A) Operations are performed pursuant to a "free product removal report" pursuant to 35 Ill. Adm. Code 731.164; and
- B) A copy of the "free product removal report" has been submitted to:

Characteristics Section (OS-333) U.S. EPA 401 M Street, SW Washington, D.C. 20460

- 12) Used chlorofluorocarbon refrigerants from totally enclosed heat transfer equipment, including mobile air conditioning systems, mobile refrigeration, and commercial and industrial air conditioning and refrigeration systems, that uses chlorofluorocarbons as the heat transfer fluid in a refrigeration cycle, provided the refrigerant is reclaimed for further use.
- 13) Non-terne plated used oil filters that are not mixed with wastes listed in <u>721.</u>Subpart D of this Part, if these oil filters have been gravity hot-drained using one of the following methods:
 - A) Puncturing the filter anti-drain back value or the filter dome end and hot-draining;
 - B) Hot-draining and crushing;
 - C) Dismantling and hot-draining; or,
 - D) Any other equivalent hot-draining method that will remove used oil.
- 14) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products.
- c) Hazardous wastes that are exempted from certain regulations. A hazardous waste that is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit, or an associated non-waste-treatment manufacturing unit, is not subject to regulation under 35 Ill. Adm. Code 702, 703, 705, and 722 through 725, and 728 or to the notification requirements of Section 3010 of RCRA until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials.

d) Samples

- 1) Except as provided in subsection (d)(2) below, a sample of solid waste or a sample of water, soil, or air that is collected for the sole purpose of testing to determine its characteristics or composition is not subject to any requirements of this Part or 35 Ill. Adm. Code 702, 703, 705, and 722 through 728. The sample qualifies when:
 - A) The sample is being transported to a laboratory for the purpose of testing; -or
 - B) The sample is being transported back to the sample collector after testing; or
 - C) The sample is being stored by the sample collector before transport to a laboratory for testing; -or
 - D) The sample is being stored in a laboratory before testing; or
 - E) The sample is being stored in a laboratory for testing but before it is returned to the sample collector; or
 - F) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action where further testing of the sample may be necessary).
- In order to qualify for the exemption in subsections
 (d)(1)(A) andor (d)(1)(B) above, a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector shall:
 - A) Comply with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
 - B) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:
 - Assure that the following information accompanies the sample: The sample collector's name, mailing address, and telephone number; the laboratory's name, mailing address, and telephone number; the quantity of the sample; the date of the shipment; and a description of the sample.
 - ii) Package the sample so that it does not leak, spill, or vaporize from its packaging.
- 3) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory is no longer meeting any of the conditions stated in subsection (d)(1) above.
- e) Treatability study samples.

- 1) Except as is provided in subsection (e)(2) below, <u>a persons</u> whothat generates or collects samples for the purpose of conducting treatability studies, as defined in 35 Ill. Adm. Code 720.110, are not subject to any requirement of 35 Ill. Adm. Code 721 through 723 or to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act. Nor are such samples included in the quantity determinations of Section 721.105 and 35 Ill. Adm. Code 722.134(d) when:
 - A) The sample is being collected and prepared for transportation by the generator or sample collector; or,
 - B) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or
 - C) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study.
- 2) The exemption in subsection (e)(1) above is applicable to samples of hazardous waste being collected and shipped for the purpose of conducting treatability studies provided that:
 - A) The generator or sample collector uses (in "treatability studies") no more than 10,000 kg of media contaminated with non-acute hazardous waste, 1000 kg of non-acute hazardous waste other than contaminated media, 1 kg of acute hazardous waste, or 2500 kg of media contaminated with acute hazardous waste for each process being evaluated for each generated wastestream; and
 - B) The mass of each shipment does not exceed 10,000 kg; the 10,000 kg quantity may be all media contaminated with non-acute hazardous waste, or may include 2500 kg of media contaminated with acute hazardous waste, 1000 kg of hazardous waste, and 1 kg of acute hazardous waste; and
 - C) The sample must be packaged so that it does not leak, spill, or vaporize from its packaging during shipment and the requirements of subsections (e)(2)(C)(i) or (e)(2)(C)(ii), below, are met.
 - i) The transportation of each sample shipment complies with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
 - ii) If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample: The name, mailing address, and telephone number of the originator of the sample; the name, address, and telephone number of the facility that will perform the treatability study; the quantity of the sample; the date of the shipment; and, a description of the sample,

including its U.S. EPA hazardous waste number-;

- D) The sample is shipped to a laboratory or testing facility that is exempt under subsection (f) below, or has an appropriate RCRA permit or interim status.
- E) The generator or sample collector maintains the following records for a period ending <u>3three</u> years after completion of the treatability study:
 - i) Copies of the shipping documents;
 - ii) A copy of the contract with the facility conducting the treatability study;
 - iii) Documentation showing: The amount of waste shipped under this exemption; the name, address, and U.S. EPA identification number of the laboratory or testing facility that received the waste; the date the shipment was made; and, whether or not unused samples and residues were returned to the generator; and
- F) The generator reports the information required in subsection (e)(2)(E)(iii) above in its report under 35 Ill. Adm. Code 722.141.
- 3) The Agency may grant requests on a case-by-case basis for up to an additional two years for treatability studies involving bioremediation. The Agency may grant requests, on a case-by-case basis, for quantity limits in excess of those specified in subsection (e)(2)(A) and (e)(2)(B) above and (f)(4) below, for up to an additional 5000 kg of media contaminated with non-acute hazardous waste, 500 kg of nonacute hazardous waste, 2500 kg of media contaminated with acute hazardous waste, and 1 kg of acute hazardous waste:
 - A) In response to requests for authorization to ship, store, and conduct further treatability studies on additional quantities in advance of commencing treatability studies. Factors to be considered in reviewing such requests include the nature of the technology, the type of process (e.g., batch versus continuous), the size of the unit undergoing testing (particularly in relation to scale-up considerations), the time or quantity of material required to reach steady-state operating conditions, or test design considerations, such as mass balance calculations.
 - B) In response to requests for authorization to ship, store, and conduct treatability studies on additional quantities after initiation or completion of initial treatability studies when: There has been an equipment or mechanical failure during the conduct of the treatability study+, there is need to verify the results of a previously-conducted treatability study+, there is a need to study and analyze alternative techniques within a previously-evaluated treatment process+, or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment.

- C) The additional quantities allowed and timeframes allowed in subsections (e)(3)(A) and (e)(3)(B) above are subject to all the provisions in subsections (e)(1) and (e)(2)(B) through (e)(2)(F) above. The generator or sample collector shall apply to the Agency and provide in writing the following information:
 - i) The reason why the generator or sample collector requires additional time or quantity of sample for the treatability study evaluation and the additional time or quantity needed;
 - ii) Documentation accounting for all samples of hazardous waste from the wastestream that have been sent for or undergone treatability studies, including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results of each treatability study;
 - iii) A description of the technical modifications or change in specifications that will be evaluated and the expected results;
 - iv) If such further study is being required due to equipment or mechanical failure, the applicant shall include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and
 - v) Such other information as the Agency determines is necessary.
- 4) Final Agency determinations pursuant to this subsection may be appealed to the Board.
- f) Samples undergoing treatability studies at laboratories or testing facilities. Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies (to the extent such facilities are not otherwise subject to RCRA requirements) are not subject to any requirement of this Part, or of 35 Ill. Adm. Code 702, 703, 705, 722 through 726, and 728_{T} or to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act, provided that the requirements of subsections (f)(1) through (f)(11)₇ below₇ are met. A mobile treatment unit may qualify as a testing facility subject to subsections (f)(1) through (f)(11)_{τ} below. Where a group of mobile treatment units are located at the same site, the limitations specified in subsections (f)(1) through $(f)(11)_{T}$ below, apply to the entire group of mobile treatment units collectively as if the group were one mobile treatment unit.
 - 1) No less than 45 days before conducting treatability studies, the facility notifies the Agency in writing that it intends to conduct treatability studies under this subsection.

- 2) The laboratory or testing facility conducting the treatability study has a U.S. EPA identification number.
- 3) No more than a total of 10,000 kg of "as received" media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste, or 250 kg of other "as received" hazardous waste is subject to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.
- 4) The quantity of "as received" hazardous waste stored at the facility for the purpose of evaluation in treatability studies does not exceed 10,000 kg, the total of which can include 10,000 kg of media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste, 1000 kg of non-acute hazardous wastes other than contaminated media, and 1 kg of acute hazardous waste. This quantity limitation does not includetreatment materials (including nonhazardous solid waste) added to "as received" hazardous waste.
- 5) No more than 90 days have elapsed since the treatability study for the sample was completed, or no more than one year (two years for treatability studies involving bioremediation) has elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs. Up to 500 kg of treated material from a particular waste stream from treatability studies may be archived for future evaluation up to five years from the date of initial receipt. Quantities of materials archived are counted against the total storage limit for the facility.
- 6) The treatability study does not involve the placement of hazardous waste on the land or open burning of hazardous waste.
- 7) The facility maintains records for <u>3three</u> years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information must be included for each treatability study conducted:
 - A) The name, address, and U.S. EPA identification number of the generator or sample collector of each waste sample;
 - B) The date the shipment was received;
 - C) The quantity of waste accepted;
 - D) The quantity of "as received" waste in storage each day;
 - E) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day;
 - F) The date the treatability study was concluded;
 - G) The date any unused sample or residues generated from

the treatability study were returned to the generator or sample collector or, if sent to a designated facility, the name of the facility and the U.S. EPA identification number.

- 8) The facility keeps, on-site, a copy of the treatability study contract and all shipping papers associated with the transport of treatability study samples to and from the facility for a period ending <u>3three</u> years from the completion date of each treatability study.
- 9) The facility prepares and submits a report to the Agency by March 15 of each year that estimates the number of studies and the amount of waste expected to be used in treatability studies during the current year, and includes the following information for the previous calendar year:
 - A) The name, address, and U.S. EPA identification number of the facility conducting the treatability studies;
 - B) The types (by process) of treatability studies conducted;
 - C) The names and addresses of persons for whom studies have been conducted (including their U.S. EPA identification numbers);
 - D) The total quantity of waste in storage each day;
 - E) The quantity and types of waste subjected to treatability studies;
 - F) When each treatability study was conducted; and
 - G) The final disposition of residues and unused sample from each treatability study.
- 10) The facility determines whether any unused sample or residues generated by the treatability study are hazardous waste under Section 721.103 and, if so, are subject to 35 Ill. Adm. Code 702, 703, and 721 through 728, unless the residues and unused samples are returned to the sample originator under the subsection (e) exemption above.
- 11) The facility notifies the Agency by letter when the facility is no longer planning to conduct any treatability studies at the site.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 721.106 Requirements for Recyclable Materials

- a) Recyclable materials:
 - Hazardous wastes that are recycled are subject to the requirements for generators, transporters, and storage facilities of subsections (b) and (c)_T below, except for the materials listed in subsections (a)(2) and (a)(3)_T below. Hazardous wastes that are recycled will be known as "recyclable materials".
 - 2) The following recyclable materials are not subject to the

requirements of this Section but are regulated under 35 Ill. Adm. Code 726.Subparts C through H and all applicable provisions in 35 Ill. Adm. Code 702, 703, and 705.

- A) Recyclable materials used in a manner constituting disposal (35 Ill. Adm. Code 726.Subpart C);
- B) Hazardous wastes burned for energy recovery in boilers and industrial furnaces that are not regulated under 35 Ill. Adm. Code 724.Subpart O or 725.Subpart O (35 Ill. Adm. Code 726.Subpart H+);
- C) Recyclable materials from which precious metals are reclaimed (35 Ill. Adm. Code 726.Subpart F);
- D) Spent lead-acid batteries that are being reclaimed (35 Ill. Adm. Code 726.Subpart G).
- 3) The following recyclable materials are not subject to regulation under 35 Ill. Adm. Code 722 through 726, 728, or 702, 703, or 705 and are not subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act:
 - A) Industrial ethyl alcohol that is reclaimed except that, unless provided otherwise in an international agreement as specified in 35 Ill. Adm. Code 722.158:
 - i) A person initiating a shipment for reclamation in a foreign country, and any intermediary arranging for the shipment, shall comply with the requirements applicable to a primary exporter in 35 Ill. Adm. Code 722.153, 722.156(a)(1) through (a)(4), (a)(6), and (b); and 722.157; shall export such materials only upon consent of the receiving country and in conformance with the U.S. EPA Acknowledgement of Consent, as defined in 35 Ill. Adm. Code 722.Subpart E; and shall provide a copy of the U.S. EPA Acknowledgement of Consent to the shipment to the transporter transporting the shipment for export;
 - ii) Transporters transporting a shipment for export shall not accept a shipment if the transporter knows <u>that</u> the shipment does not conform to the U.S. EPA Acknowledgement of Consent, shall ensure that a copy of the U.S. EPA Acknowledgement of Consent accompanies the shipment, and shall ensure that it is delivered to the facility designated by the person initiating the shipment.
 - B) Used batteries (or used battery cells) returned to a battery manufacturer for regeneration;
 - C) Scrap metal;
 - D) Fuels produced from the refining of oil-bearing hazardous wastes along with normal process streams at a petroleum refining facility if such wastes result

from normal petroleum refining, production, and transportation practices (this exemption does not apply to fuels produced from oil recovered from oilbearing hazardous waste where such recovered oil is already excluded under Section 721.104(a)(12));

- E) Oil reclaimed from hazardous waste resulting from normal petroleum refining, production, and transportation practices, which oil is to be refined along with normal process streams at a petroleum refining facility;
- FE) Petroleum refining wastes.
 - i) Hazardous waste fuel produced from oil-bearing hazardous wastes from petroleum refining, production, or transportation practices, or produced from oil reclaimed from such hazardous wastes, where such hazardous wastes are reintroduced into a process that does not use distillation or does not produce products from crude oil, so long as the resulting fuel meets the used oil specification under 35 Ill. Adm. Code 726.140(e) and so long as no other hazardous wastes are used to produce the hazardous waste fuel;
 - ii) Hazardous waste fuel produced from oil-bearing hazardous waste from petroleum refining production, and transportation practices, where such hazardous wastes are reintroduced into a refining process after a point at which contaminants are removed, so long as the fuel meets the used oil fuel specification under 35 Ill. Adm. Code 726.140(e); and
 - iii) Oil reclaimed from oil-bearing hazardous wastes from petroleum refining, production, and transportation practices, which reclaimed oil is burned as a fuel without reintroduction to a refining process, so long as the reclaimed oil meets the used oil fuel specification under 35 Ill. Adm. Code 726.140(e); and
- GF) Petroleum coke produced from petroleum refinery hazardous wastes containing oil at the same facility at which such by the same person that generated the wastes were generated, unless the resulting coke product exceeds one or more of the characteristics of hazardous waste in <u>721.</u>Subpart <u>CD of this Part</u>.
- 4) Used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic is not subject to the requirements of 35 Ill. Adm. Code 720 through 728, but <u>it</u> is regulated under 35 Ill. Adm. Code 739. Used oil that is recycled includes any used oil which that is reused for any purposer following its original user for any purpose (including the purpose for which the oil was originally used]. Such term includes, but is not limited to, oil which that is re-refined, reclaimed, burned for energy recovery, or reprocessed.

- Generators and transporters of recyclable materials are subject to b) the applicable requirements of 35 Ill. Adm. Code 722 and 723 and the notification requirements under Section 3010 of the Resource Conservation and Recovery Act, except as provided in subsection $(a)_{T}$ above.
- Storage and recycling: C)

- Owners or operators of facilities that store recyclable 1) materials before they are recycled are regulated under all applicable provisions of 35 Ill. Adm. Code 702, 703, and 705; 724. Subparts A through L, AA, and BB; and 725. Subparts A through L, AA₁ and BB₇; 726_{7} ; 728_{7} ; -702, -703 and -705 and the notification requirement under Section 3010 of the Resource Conservation and Recovery Act, except as provided in subsection (a) τ above. (The recycling process itself is exempt from regulation, except as provided in subsection $(d)_{\tau}$ below.)
- 2) Owners or operators of facilities that recycle recyclable materials without storing them before they are recycled are subject to the following requirements, except as provided in subsection $(a)_{\tau}$ abover:
 - A) Notification requirements under Section 3010 of the Resource Conservation and Recovery Actr
 - 35 Ill. Adm. Code 725.171 and 725.172 (dealing with B) the use of the manifest and manifest discrepancies), and
 - C) subsection $(d)_{\tau}$ below.
- Owners or operators of facilities required to have a RCRA permit pursuant to 35 Ill. Adm. Code 703 with hazardous waste management d) units which that recycle hazardous wastes are subject to 35 Ill. Adm. Code 724.Subparts AA and BB and 725.Subparts AA and BB.

(Source: Amended at 19 Ill. Reg. , effective ___)

Section 721. Appendix I Wastes Excluded under Section 720.120 and 720.122 by Administrative Action

Table A Wastes Excluded by U.S. EPA under 40 CFR 260.20 and 260.22 fFrom Non-Specific Sources

Facility Address	Waste Description
Envirite Corp.	Dewatered wastewater sludges (EPA -
Harvey, Illinois	Hazardous Waste NO. F006) generated from electroplating operations; spent cyanide plating solutions (EPA Hazardous Waste No. F007) generated from electroplating operations; plating bath residues from the bottom of plating baths (EPA Hazardous Waste No. F008) generated from electroplating operations where syanides are used in the process; spent stripping and
	cleaning bath solutions (EPA Hazardous Waste No. F009) generated from electroplating operations where cyanides are used in the process; spent cyanide solutions from salt bath pot cleaning (EPA Hazardous Waste No. F011) generated from

metal heat treating operations; quenching wastewater treatment sludges (SPA Hazardous Waste No. F012) generated from metal heat treating where cyanides are used in the process; wastewater treatment sludges (SPA Hazardous Waste No. F019) generated from the chemical conversion soating of aluminum after November 14, 1986. To ensure that hazardous constituents are not present in the waste at levels of regulatory concern, the facility must implement a contingency testing program for the petitioned wastes. This testing program must meet the following conditions for the exclusions to be validt

- 1) Each batch of treatment residue must be representatively sampled and tested using the EP Toxicity test for aresenic, barium, oadmium, chromium, lead, selenium, silver, mercury, and nickel. If the extract concentrations for chromium, lead, arsenic, and silver exceed 0.315 ppm; barium levels exceed 6.3 ppm; cadmium and selenium exceed 0.063 ppm; mercury exceeds 0.0126 ppm; or nickel levels exceed 2.205 ppm, the waste must be re-treated or managed and disposed as a hazardous waste under 35 Ill. Adm. Code 722 to 725 and the permitting standards of 35 Ill. Adm. Code 702, 703, and 705.
- 2) Each batch of treatment residue must be tested for reactive and leachable cyanide. If the reactive cyanide levels exceed 250 ppm or leachable cyanide levels (using the EP Toxicity test without acetic acid adjustment) exceed 1.26 ppm, the waste must be retreated or managed and disposed as a hazardous waste under 35 Ill. Adm. Code 722 to 725 and the permitting standards of 35 Ill. Adm. Code 702, 703, and 705.
- Each batch of waste must be tested for the 31total content of specific organic toxicants. If the total content of anthracene exceeds 76.8 ppm, 1,2-diphenyl hydrazine exceeds 0.001 ppm, methylene chloride exceeds 8.18 ppm, methyl ethyl ketone exceeds 326 ppm, n-nitrosodiphenylamine exceeds 11.9 ppm, phenol exceeds 1,566 ppm, tetrachloroethylene exceeds 0.188 ppm, or trichloroethylene exceeds 0.592 ppm, the waste must be managed and disposed as a hazardous waste under 35 Ill. Adm. Code 722 to 725 and the permitting standards of 35 Ill. Adm. Code 702, 703, and 705.
- 4) A grab sample must be collected from each batch to form one monthly composite sample whichthat must be tested using gas

chromatography, mass spectrometry analysis for the compounds listed in No.3 above as well as the remaining organics on the Priority Pollutant List (incorporated by reference, see 40 CFR 423 App. A (1983) (as adopted at 47 Fed. Reg. 52,309 (Nov. 19, 1982)), not including later amendments.

5) The data from conditions 1-4 must be kept on file at the facility for inspection purposes and must be compiled, summarized, and submitted to the Administrator of USEPA by certified mail semi-annually. The USEPA will review this information and if needed will propose to modify or withdraw the exclusion. Should USEPA propose to modify or withdraw the exclusion, Envirite shall promptly provide notice thereof to the Board. The decision to conditionally exclude the treatment residue generated from the wastewater treatment systems at Envirite's Harvey, Illinois facility applies only to the wastewater and solids treatment systems as they presently exist as described in the delisting petition submitted to the USEPA. The exclusion does not apply to the proposed process additions described in the petition submitted to USEPA as recovery including crystallization, electrolytic metals recovery, evaporative recovery, and ion exchange.

(Source: Amended at 19 Ill. Reg. _____, effective _____)
Section 721.Appendix I Wastes Excluded under Section 720.120 and 720.122by
Administrative Action

Table BWastes Excluded by U.S. EPA under 40 CFR 260.20 and 260.22 f#romSpecific Sources

Facility Address	Waste Description
Amoco Oil Company Wood River, Illinois	150 million gallons of DAF float from petroleum refining contained in four surge ponds after treatment with the Chemfix stabilization process. <u>This waste contains U.S. EPA hazardous</u> <u>waste number K048.</u> This exclusion applies to the 150 million gallons of waste after chemical stabilization as long as the mixing ratios of the reagent with the waste are monitored continuously and do not vary outside of the limits presented in the demonstration samples; and one grab sample is taken each hour from each treatment unit, composited, and EP toxicity tests performed on each sample. If the levels of lead or total chromium exceed 0.5 ppm in the EP extract, then the waste that was processed during the compositing period is considered hazardous; the treatment residue shall be pumped into bermed cells to ensure that the waste is

identifiable in the event that removal is necessary.

Spent pickle liquor (EPA Hazardous Waste No. K062) generated from steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332); wastewater treatment sludge (EPA Hagardous Waste No. K002) generated from the production of chrome yellow and orange pigments; wastewater treatment sludge (EPA Hazardoug Waste No. K003) generated from the production of molybdate orange pigments; wastewater treatment sludge (EPA Hazardous Waste No. K004) generated from the production of zinc yellow-pigments; wastewater-treatment-sludge (EPA Hazardous Waste No. K005) generated from the production of chrome green pigments; wastewater-treatment-sludge (EPA Hazardous Waste No. K006) generated from the production of chrome oxide green pigments (anhydrous and hydrated); wastewater treatment sludge (EPA Hazardous Waste No. K007) generated from the production of iron blue pigments; oven residues (EPA Hasardous Waste No. K008) generated from the production of chrome oxide green pigments after November 14, 1986. To ensure that hazardous constituents are not present in the waste at levels of regulatory concern, the facility must implement a contingency testing program for the petitioned wastes. This testing program must meet the following conditions for the exclusions to be valid:

- 1) Bach batch of treatment residue must be representatively sampled and tested using the EP Toxicity test for arsenic, barium, oadmium, chromium, lead, selenium, silver, mercury, and nickel. If the extract concentrations for chromium, lead, arsenic, and silver exceed 0.315 ppm; barium levels exceed 6.3 ppm; cadmuim and selenium exceed 0.063 ppm; mercury exceeds 0.0126 ppm; or nickel levels exceed 2.205 ppm, the waste must be re-treated or managed and disposed as a hazardous waste under 35 Ill. Adm. Code 722 to 725 and the permitting standards of 35 Ill. Adm. Code 702, 703, and 705.
- 2) Each batch of treatment residue must be tested for reactive and leachable cyanide. If the reactive cyanide levels exceed 250 ppm; or leachable cyanide levels (using the EP Toxicity test without acetic acid adjustment) exceed 1.26 ppm; the waste must be retreated or managed and disposed as hazardous waste under 35 Ill. Adm. Code 722 to 725 and the permitting standards of 35 Ill. Adm. Code 702, 703, and 705.

3) Each batch of waste must be tested for the total content of specific organic toxicants. If the total content of

Envirite Corp. Harvey, Illinois anthracene exceeds 76.8 ppm, 1,2-diphenyl hydrazine exceeds 0.001 ppm, methylene chloride exceeds 8.18 ppm, methyl ethyl ketone exceeds 326 ppm, n-nitrosodiphenylamine exceeds 11.9 ppm, phenol exceeds 1,566 ppm, tetrachloroethylene exceeds 0.188 ppm, or trichloroethylene exceeds 0.592 ppm, the waste must be managed and disposed as a hazardous waste under 35 Ill. Adm. Code 722 to 725 and the permitting standards of 35 Ill. Adm. Gode 702, 703, and 705.

- 4) A grab sample must be collected from each batch to form one monthly composite sample which must be tested using gas chromatography, mass spectrometry, analysis for the compounds listed in No. 3 above as well as the remaining organics on the Priority Pollutant List (incorporated by reference, see 40 CFR 423 App. A (1983) (as adopted at 47 Fed. Reg. 52,309 (November 19, 1982)), not including later amendments).
 - 5) The data from conditions 1-4 must be kept on file at the facility for inspection purposes and must be compiled, summarised, and submitted to the USEPA Administrator by certified mail semi-annually. The USEPA will review this information and if needed will propose to modify or withdraw the exclusion. Should USEPA propose to modify or withdraw the exclusion, Envirite shall promptly provide notice thereof to the Board. The decision to conditionally exclude the treatment residue generated from the wastewater treatment systems at Envirite's Harvey, Illinois facility applies only to the wastewater and solids treatment systems as they presently exist as described in the delisting petition submitted to the USEPA. The exclusion does not apply to the proposed process additions described in the petition submitted to USEPA as recovery, including erystallization, electrolytic metals recovery, evaporative recovery, and ion exchange.

Fully-cured chemically stabilized electric arc furnace dust/sludge (CSEAFD) treatment residue (U.S. EPA Hhazardous Wwaste Nornumber K061) generated from the primary production of steel after April 29, 1991. This exclusion (for 35,000 tons of CSEAFD per year) is conditioned upon the data obtained from USX's full-scale CSEAFD treatment facility. To ensure that hazardous constituents are not present in the waste at levels of regulatory concern once the full-scale treatment facility is in operation, USX shall implement a testing program for the

USX Steel Corporation, Chicago, Illinois petitioned waste. This testing program must meet the following conditions for the exclusion to be valid:

- Testing: Sample collection and analyses (including quality control (QC) procedures) must be performed according to SW-846 methodologies. SW-846-is, incorporated by reference in 35 Ill. Adm. Code 720.111.
 - Α. Initial Testing: During the first four weeks of operation of the full scale treatment system, USX shall collect representative grab samples of each treated batch of the CSEAFD and composite the grab samples daily. The daily composites, prior to disposal, must be analyzed for the EP leachate concentrations of all the EP toxic metals, nickel, and cyanide (using distilled water in the cyanide extractions), and the total concentrations of reactive sulfide and reactive cyanide. USX must report the analytical test data, including quality control information, obtained during this initial period no later than 90 days after the treatment of the first full-scale batch.
 - в. Subsequent Testing: USX shall collect representative grab samples from every treated batch of CSEAFD generated daily and composite all of the grab samples to produce a weekly composite sample. USX then shall analyze each weekly composite sample for all of the EP toxic metals, and nickel. The analytical data, including quality control information, must be compiled and maintained on site for a minimum of three years. These data must be furnished upon request and made available for inspection by any employee or representative of U.S. EPA or the Agency.
- 2. Delisting levels: If the EP extract concentrations for chromium, lead, arsenic, or silver exceed 0.315 mg/l; for barium exceeds 6.3 mg/l; for cadmium or selenium exceed 0.063 mg/l; for mecury exceeds 0.0126 mg/l; for nickel exceeds 3.15 mg/l; or for cyanide exceeds 4.42 mg/l; or total reactive cyanide or total reactive sulfide levels exceed 250 mg/kg and 500 mg/kg, respectively, the waste must either be re-treated until it meets these levels or managed and disposed of in

accordance with Subpart C of Resource Conservation and Recovery Act (42 U.S.C. 6901 et seq.).

з. Data submittal to and enforcement by U.S. EPA: Within one week of system start-up USX must notify the Section Chief, Delisting Section (see address below) when their full-scale stabilization system is on-line and waste treatment has begun. The data obtained through condition (1)(A) shall be submitted to the Section Chief, Delisting Section, CAD/OSW (OS-333), U.S. EPA, 401 M Street, S.W., Washington, DC 20460 within the time period specified. At the U.S. EPA's request, USX must submit any other analytical data obtained through conditions (1)(A) or (1)(B) within the time peirod specified by the Section Chief. Failure to submit the required data obtained from conditions (1)(A) or (1)(B) within the specified time period or maintain the required records for the specified time will be considered by U.S. EPA, at its decision, sufficient basis to revoke USX's Federal exclusion to the extent directed by U.S. EPA. All data must be accompanied by the following "Under civil and certification statement: criminal penalty of law for the making or submission of false or fraudulent statements or representations (pursuant to the applicable provisions of the Federal Code which include, but may not be limited to, 18 U.S.C. Section 6928), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the (those) identified section(s) of this document for which I cannot personally verify its (their) truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the vertification that this information is true, accurate and complete. In the event that any of this information is determined by U.S. EPA in its sole discretion to be false, inaccurate or incomplete, and upon conveyance of this fact to the company, I recognize and agree that this federal exclusion of wastes will be void as if it never had effect or to the extent directed by U.S. EPA and that the company will be liable for any actions taken in contravention of the company's RCRA and CERCLA obligations premised upon the company's reliance on the void exclusion."

4. Data Submittal to Agency: The data obtained through condition (1)(A) must be submitted to the Illinois Environmental

66

- Protection Agency, Planning and Reporting Section, 2200 Churchill Road, P.O. Box 19276, Springfield, IL 62794-9276 within the time period specified. At Agency's request, USX must submit any other analytical data obtained through conditions (1)(A) or (1)(B) within the time period specified by the Agency. All data must be accompanied by the following certification statement: "Under civil and criminal penalty of law for the making or submission of false or fraudulent statements or representations (pursuant to the applicable provisions of Illinois' Environmental Protection Act), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the (those) identified section(s) of this document for which I cannot personally verify its (their) truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete."
- 5. Enforcement by the Agency: Whenever the Agency finds that USX has violated the standards in this exclusion, has failed to submit the required data obtained from conditions (1)(A) or (1)(B) within the specified time period, has failed to maintain the required records for the specified time or has submitted false, inaccurate or incomplete data, the Agency may take such action as is allowed by Title VIII of the Act.
- Notification to the Board: Upon modification, termination, revocation, or other alteration of this exemption by U.S. EPA, USX shall file a petition, pursuant to Part 102, with this Board requesting that the Board follow the U.S. EPA action.

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(Source: Amended at 19 Ill. Reg. ____, effective _____) Section 721.Appendix I Wastes Excluded under Section 720.120 and 720.122by Administrative Action

Table CWastes Excluded by U.S. EPA under 40 CFR 260.20 and 260.22 fFrom
Commercial Chemical Products, Off-Specification Species, Container
Residues, and Soil Residues Thereof

Facility	Address	Waste	Description	

(Source: Amended at 19 Ill. Reg. ____, effective ____

Section 721. Appendix I Wastes Excluded under Section 720.120 and 720.122by

Administrative Action

Table D Wastes Excluded by the Board by Adjusted Standard

The Board has entered the following orders on petitions for adjusted standards for delisting, pursuant to 35 Ill. Adm. Code 720.122.

- AS91-1 Petition of Keystone Steel and Wire Co. for Hazardous Waste Delisting, February 6, 1992, and modified at 133 PCB 189, April 23, 1992. (treated K061 waste)
- AS91-3 Petition of Peoria Disposal Co. for an Adjusted Standard from 35 Ill. Adm. Code 721.Subpart D, February 6 and March 11, 1993. (treated F006 waste)
- AS93-7 Petition of Keystone Steel & Wire Co. for an Adjusted Standard from 35 Ill. Adm. Code 721.Subpart D, February 17, 1994, as modified March 17, 1994. (treated K062 waste)

(Source: Amended at 19 Ill. Reg. , effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 722

STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE

SUBPART A: GENERAL

00001011	
722.110	Purpose, Scope and Applicability
722.111	Hazardous Waste Determination

722.112 USEPA Identification Numbers

SUBPART B: THE MANIFEST

- Section 722.120 General Requirements
- 722.121 Acquisition of Manifests
- 722.122 Number of Copies
- 722.123 Use of the Manifest

SUBPART C: PRE-TRANSPORT REQUIREMENTS

- Section 722.130 Packaging
- 722.131 Labeling
- 722.132 Marking
- 722.133 Placarding
- 722.134 Accumulation Time

SUBPART D: RECORDKEEPING AND REPORTING

- Section 722.140 Recordkeeping
- 722.140 Recordkeeping 722.141 Annual Reporting
- 722.142 Exception Reporting
- 722.143 Additional Reporting
- 722.144 Special Requirements for Generators of between 100 and 1000 kilograms per month

SUBPART E: EXPORTS OF HAZARDOUS WASTE

Section

Section

69

722.150	Applicability

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- 722.152 General Requirements 722.153 Notification of Inter
- 722.153 Notification of Intent to Export 722.154 Special Manifest Requirements
- 722.155 Exception Report
- 722.156 Annual Reports
- 722.157 Recordkeeping

SUBPART F: IMPORTS OF HAZARDOUS WASTE

722.160 Imports of Hazardous Waste

SUBPART G: FARMERS

Section

Section

722.170 Farmers

722. Appendix A Hazardous Waste Manifest

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SUBPART B: THE MANIFEST

Section 722.122 Number of Copies

The manifest consists of at least the that number of copies which that will provide the generator; each transporter; and the owner or operator of the designated receiving treatment, storage, or disposal facility each with one copy each for their records, and another plus provide one copy to be returned to the generator, and plus provide two copies to be sent to the Agency, one by each of the generator and by the HWM receiving treatment, storage, or disposal facility owner or operator.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART C: PRE-TRANSPORT REQUIREMENTS

Section 722.134 Accumulation Time

a) Except as provided in subsections (d), (e), or (f), below, a generator is exempt from all the requirements in 35 Ill. Adm. Code 725.Subparts G and H, except for 35 Ill. Adm. Code 725.211 and 725.214, and may accumulate hazardous waste on-site for 90 days or less without a permit or without having interim status, provided that:

- 1) The waste is placed:
 - A) In containers and the generator complies with 35 Ill. Adm. Code 725.Subparts I, AA, BB, and CC; or
 - B) In tanks and the generator complies with 35 Ill. Adm. Code 725.Subparts J (except 35 Ill. Adm. Code 725.297(c) and 725.300), AA, BB, and CC; or
 - C) On drip pads and the generator complies with 35 Ill. Adm. Code 725.Subpart W and maintains the following records at the facility:
 - A description of the procedures that will be followed to ensure that all wastes are removed from the drip pad and associated collection system at least once every 90 days+__ and
 - ii) Documentation of each waste removal, including the quantity of waste removed from the drip pad and the sump or collection system and the date and time of removal; or
 - D) In containment buildings and the generator complies with 35 Ill. Adm. Code 725.Subpart DD (has placed its Professional Engineer (PE) certification that the building complies with the design standards specified in 35 Ill. Adm. Code 725.1101 in the facility's operating record no later than 60 days afterprior to the date of initial operation of the unit). After February 18, 1993, the PE certification will be required prior to operation of the unit. The owner or operator shall maintain the following records at the facility:
 - i) A written description of procedures to ensure that each waste volume remains in the unit for no more than 90 days, a written description of the waste generation and management practices for the facility showing that they are consistent with respecting the 90 day limit, and documentation that the procedures are complied with; or
 - ii) Documentation that the unit is emptied at least once every 90 days.

BOARD NOTE: The "in addition" hanging subsection which that appears in the Federal rules after 40 CFR 262.34(a)(1)(iv)(B) is in the introduction to subsection (a)₇ above.

 The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container;

- 3) While being accumulated on-site, each container and tank is labeled or marked clearly with the words $_{\tau}$ "Hazardous Waste", and
- 4) The generator complies with the requirements for <u>treatment</u>, <u>storage</u>, <u>and disposal facility</u> owners or operators in 35 Ill. Adm. Code 725.Subparts C and D_{τ} and with 35 Ill. Adm. Code 725.116 and 728.107(a)(4).
- b) A generator whothat accumulates hazardous waste for more than 90 days is an operator of a storage facility and is subject to the requirements of 35 Ill. Adm. Code 724 and 725 and the permit requirements of 35 Ill. Adm. Code 702, 703 and 705 unless the generator has been granted an extension of the 90-day period. If hazardous wastes must remain on-site for longer than 90 days due to unforeseen, temporary, and uncontrollable circumstances, the generator may seek an extension of up to 30 days by means of a variance or provisional variance, pursuant to Section 37 of the Environmental Protection Act and 35 Ill. Adm. Code 180 (Agency procedural regulations).
- c) Accumulation near the point of generation.
 - 1) A generator may accumulate as much as 55 gallons of hazardous waste or one quart of acutely hazardous waste listed in 35 Ill. Adm. Code 721.133(e) in containers at or near any point of generation where wastes initially accumulate_T which that is under the control of the operator of the process generating the waste_T without a permit or interim status and without complying with subsection (a)_T above, provided the generator:
 - A) Complies with 35 Ill. Adm. Code 725.271, 725.272 and 725.273(a)₁, and
 - B) Marks the generator's containers either with the words "Hazardous Waste" or with other words that identify the contents of the containers.
 - 2) A generator whethat accumulates either hazardous waste or acutely hazardous waste listed in 35 Ill. Adm. Code 721.133(e) in excess of the amounts listed in subsection (c)(1)₇ above₇ at or near any point of generation must, with respect to that amount of excess waste, comply within three days with subsection (a)₇ above₇ or other applicable provisions of this e<u>C</u>hapter. During the three day period the generator must continue to comply with subsection (c)(1)₇ above. The generator must mark the container holding the excess accumulation of hazardous waste with the date the excess amount began accumulating.
- d) A generator whothat generates greater than 100 kilograms but less than 1000 kilograms of hazardous waste in a calendar month may accumulate hazardous waste on-site for 180 days or less without a permit or without having interim status provided that:
 - The quantity of waste accumulated on-site never exceeds 6000 kilograms;
 - 2) The generator complies with the requirements of 35 Ill. Adm. Code 725.Subpart I_T (except the generator need not comply with 35 Ill. Adm. Code 725.276 and 725.278);

- 3) The generator complies with the requirements of 35 Ill. Adm. Code 725.301;
- 4) The generator complies with the requirements of subsections (a)(2) and $(c)(3)_{\tau}$ above, of 35 Ill. Adm. Code 725.Subpart C₁ and of 35 Ill. Adm. Code 728.107(a)(4); and
- 5) The generator complies with the following requirements:
 - A) At all times there must be at least one employee either on the premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures specified in subsection (d)(5)(D)_T below. The employee is the emergency coordinator.
 - B) The generator shall post the following information next to the telephone:
 - i) The name and telephone number of the emergency coordinator+;
 - ii) Location of fire extinguishers and spill control material_T and_L if present, fire alarm+; and
 - iii) The telephone number of the fire department, unless the facility has a direct alarm.
 - C) The generator shall ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies+;
 - D) The emergency coordinator or designee shall respond to any emergencies that arise. The applicable responses are as follows:
 - In the event of a fire, call the fire department or attempt to extinguish it using a fire extinguisher+;
 - ii) In the event of a spill, contain the flow of hazardous waste to the extent possible, and, as soon as is practicable, clean up the hazardous waste and any contaminated materials or soil+;
 - iii) In the event of a fire, explosion, or other release whichthat could threaten human health outside the facility, or when the generator has knowledge that a spill has reached surface water, the generator shall immediately notify the National Response Center (using its 24-hour toll free number 800/-424-8802). The report must include the following information: the name, address, and U.S. EPA identification number (35 Ill. Adm. Code 722.112) of the generator; the date, time, and type of incident (e.g., spill or fire); the quantity and type of hazardous waste involved in the incident; the extent of injuries, if any; and the estimated

quantity and disposition of recoverable materials, if any.

- e) A generator whothat generates greater than 100 kilograms but less than 1000 kilograms of hazardous waste in a calendar month and who that must transport the waster or offer the waste for transportation, over a distance of 200 miles or more for off-site treatment, storage, or disposal may accumulate hazardous waste onsite for 270 days or less without a permit or without having interim status, provided that the generator complies with the requirements of subsection $(d)_{\tau}$ above.
- f) A generator whothat generates greater than 100 kilograms but less than 1000 kilograms of hazardous waste in a calendar month and whothat accumulates hazardous waste in quantities exceeding 6000 kg or accumulates hazardous waste for more than 180 days (or for more than 270 days if the generator must transport the waster or offer the waste for transportation τ over a distance of 200 miles or more) is an operator of a storage facility and is subject to the requirements of 35 Ill. Adm. Code 724 and 725 and the permit requirements of 35 Ill. Adm. Code 703 unless the generator has been granted an extension to the 180-day (or 270-day if applicable) period. If hazardous wastes must remain on-site for longer than 180 days (or 270 days if applicable) due to unforeseen, temporary, and uncontrollable circumstances, the generator may seek an extension of up to 30 days by means of variance or provisional variance pursuant to Section 37 of the Environmental Protection Act.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER C: HAZARDOUS WASTE OPERATING REQUIREMENTS

> PART 723 STANDARDS APPLICABLE TO TRANSPORTERS OF HAZARDOUS WASTE

> > SUBPART A: GENERAL

- Section
- 723.110 Scope 723.111
- USEPA Identification Number
- 723.112 Transfer Facility Requirements

SUBPART B: COMPLIANCE WITH THE MANIFEST SYSTEM AND RECORDKEEPING

- Section
- 723.120 The Manifest System
- Compliance with the Manifest 723.121
- 723.122 Recordkeeping

SUBPART C: HAZARDOUS WASTE DISCHARGES

- Section
- 723.130 Immediate Action
- 723.131 Discharge Clean Up

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106May 17, 1982; amended and codified in R81-22, 45 PCB 17, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code 700.106May 17, 1982; amended in R84-9, at 9 Ill. Reg. 11961, effective July 24, 1985; amended in R86-19, at 10 Ill. Reg. 20718, effective December 2, 1986; amended in R86-46 at 11 Ill. Reg. 13570, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19412, effective November 12, 1987; amended in R95-6 at 19 Ill. Reg. , effective

SUBPART C: HAZARDOUS WASTE DISCHARGES

Section 723.130 Immediate Action

- a) In the event of a discharge of hazardous waste during transportation, the transporter must take appropriate immediate action to protect human health and the environment (e.g., notify local authorities, dike the discharge area).
- b) If a discharge of hazardous waste occurs during transportation and an official (of State or local government or of a Ffederal Agency) acting within the scope of his or her official responsibilities determines that immediate removal of the waste is necessary to protect human health or the environment, that official may authorize the removal of the waste by transporters whethat do not have U.S. EPA identification numbers and without the preparation of a manifest.
- c) An air, rail, highway, or water transporter whothat has discharged hazardous waste must:
 - 1) Give notice, if required by 49 CFR 171.15, to the National Response Center (800-424-8802 or 202-426-2675), if required by 49 CFR 171.15; and
 - 2) Report in writing as required by 49 CFR 171.16 to the Director, Office of Hazardous Materials Regulations, Materials Transportation Bureau, Department of Transportation, Washington, D.C. 20590, as required by 49 CFR 171.16; and r
 - 3) give notice to:

Emergency Services and Disaster Agency, 110 E. Adams, Springfield, Il 62706, A/C 217-782-7860. Illinois Emergency Management Agency 110 East Adams Springfield, Illinois 62706 217-782-7860

d) A water (bulk shipment) transporter whothat has discharged hazardous waste must give the same notice as required by 33 CFR 153.203 for oil and hazardous substances.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 724 STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

SUBPART A: GENERAL PROVISIONS

Section				
724.101	Purpose,	Scope	and	Applicability

724.103 Relationship to Interim Status Standards

SUBPART B: GENERAL FACILITY STANDARDS

- 724.110 Applicability
- 724.111 Identification Number
- 724.112 Required Notices
- 724.113 General Waste Analysis
- 724.114 Security

Section

Section

Section

Section

- 724.115 General Inspection Requirements
- 724.116 Personnel Training
- 724.117 General Requirements for Ignitable, Reactive or Incompatible
- Wastes
- 724.118 Location Standards
- 724.119 Construction Quality Assurance Program

SUBPART C: PREPAREDNESS AND PREVENTION

- 724.130 Applicability
- 724.131 Design and Operation of Facility
- 724.132 Required Equipment
- 724.133 Testing and Maintenance of Equipment
- 724.134 Access to Communications or Alarm System
- 724.135 Required Aisle Space
- 724.137 Arrangements with Local Authorities

SUBPART D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES

724.150 Applicability

724.151	Purpose and Implementation of Contingency Plan
724.152	Content of Contingency Plan
724.153	Copies of Contingency Plan
724.154	Amendment of Contingency Plan

- 724.155 Emergency Coordinator
- 724.156 Emergency Procedures

SUBPART E: MANIFEST SYSTEM, RECORDKEEPING AND REPORTING

- 724.170 Applicability
- 724.171 Use of Manifest System
- 724.172 Manifest Discrepancies
- 724.173 Operating Record
- 724.174 Availability, Retention and Disposition of Records
- 724.175 Annual Report
- 724.176 Unmanifested Waste Report
- 724.177 Additional Reports

SUBPART F: RELEASES FROM SOLID WASTE MANAGEMENT UNITS

- Section 724.190 Applicability
- 724.191 Required Programs
- 724.192 Groundwater Protection Standard
- 724.193 Hazardous Constituents
- 724.194 Concentration Limits
- 724.195 Point of Compliance

76

- 724.196 Compliance Period
- 724.197 General Groundwater Monitoring Requirements
- 724.198 Detection Monitoring Program
- 724.199 Compliance Monitoring Program
- 724.200 Corrective Action Program
- 724.201 Corrective Action for Solid Waste Management Units

SUBPART G: CLOSURE AND POST-CLOSURE

724.210 Applicability

Section

Section

- 724.211 Closure Performance Standard
- 724.212 Closure Plan; Amendment of Plan
- 724.213 Closure; Time Allowed For Closure
- 724.214 Disposal or Decontamination of Equipment, Structures and Soils
- 724.215 Certification of Closure
- 724.216 Survey Plat
- 724.217 Post-closure Care and Use of Property
- 724.218 Post-closure Plan; Amendment of Plan
- 724.219 Post-closure Notices

724.220 Certification of Completion of Post-closure Care

SUBPART H: FINANCIAL REQUIREMENTS

- 724.240 Applicability
- 724.241 Definitions of Terms As Used In This Subpart
- 724.242 Cost Estimate for Closure
- 724.243 Financial Assurance for Closure
- Cost Estimate for Post-closure Care 724.244
- 724.245 Financial Assurance for Post-closure Care
- 724.246 Use of a Mechanism for Financial Assurance of Both Closure and Post-closure Care
- 724.247 Liability Requirements
- 724.248
- Incapacity of Owners or Operators, Guarantors or Financial Institutions
- 724.251 Wording of the Instruments

SUBPART I: USE AND MANAGEMENT OF CONTAINERS

- Section 724.270 Applicability
- 724.271 Condition of Containers
- 724.272 Compatibility of Waste With Container
- 724.273
- Management of Containers
- 724.274 Inspections
- 724.275 Containment
- 724.276 Special Requirements for Ignitable or Reactive Waste
- 724.277 Special Requirements for Incompatible Wastes
- 724.278 Closure

Section

724.279 Air Emission Standards

SUBPART J: TANK SYSTEMS

724.290	Applicability
---------	---------------

- Assessment of Existing Tank System's Integrity 724.291
- 724.292 Design and Installation of New Tank Systems or Components
- 724.293 Containment and Detection of Releases
- 724.294 General Operating Requirements
- 724.295 Inspections
- 724.296 Response to Leaks or Spills and Disposition of Leaking or unfitfor-use Tank Systems
- 724.297 Closure and Post-Closure Care
- 724.298 Special Requirements for Ignitable or Reactive Waste
- 724.299 Special Requirements for Incompatible Wastes

724.300	Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027<u>Air Emission Standards</u>
Section	SUBPART K: SURFACE IMPOUNDMENTS
724.320	Applicability
724.320	Design and Operating Requirements
724.322	Action Leakage Rate
724.323	Response Actions
724.326	Monitoring and Inspection
724.327	Emergency Repairs; Contingency Plans
724.328	Closure and Post-closure Care
724.329	Special Requirements for Ignitable or Reactive Waste
724.330	Special Requirements for Incompatible Wastes
724.331	Special Requirements for Hazardous Wastes F020, F021, F022, F023,
	F026 and F027
724.332	Air Emission Standards
	SUBPART L: WASTE PILES
Section	
724.350	Applicability
724.351	Design and Operating Requirements
724.352	Action Leakage Rate
724.353	Response Action Plan
724.354	Monitoring and Inspection
724.356	Special Requirements for Ignitable or Reactive Waste
724.357	Special Requirements for Incompatible Wastes
724.358	Closure and Post-closure Care
724.359	Special Requirements for Hazardous Wastes F020, F021, F022, F023,
	F026 and F027
	SURPART M. LAND TREATMENT
Section	SUBPART M: LAND TREATMENT
Section	
724.370	Applicability
724.370 724.371	Applicability Treatment Program
724.370 724.371 724.372	Applicability Treatment Program Treatment Demonstration
724.370 724.371 724.372 724.373	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements
724.370 724.371 724.372 724.373 724.376	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops
724.370 724.371 724.372 724.373	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring
724.370 724.371 724.372 724.373 724.376 724.378	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops
724.370 724.371 724.372 724.373 724.376 724.378 724.379	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Incompatible Wastes
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383 Section 724.400	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383 Section 724.400 724.400	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383 Section 724.400 724.401 724.402	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383 Section 724.400 724.401 724.402 724.403	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383 Section 724.400 724.401 724.402 724.403 724.404	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection Response Actions
724.370 724.371 724.372 724.373 724.376 724.378 724.380 724.381 724.382 724.383 Section 724.400 724.400 724.401 724.402 724.403 724.404 724.409	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection Response Actions Surveying and Recordkeeping
724.370 724.371 724.372 724.373 724.376 724.378 724.380 724.381 724.382 724.383 Section 724.400 724.400 724.401 724.402 724.403 724.404 724.409 724.410	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection Response Actions Surveying and Recordkeeping Closure and Post-closure Care
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383 Section 724.400 724.401 724.402 724.403 724.403 724.404 724.409 724.410 724.412	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection Response Actions Surveying and Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste
724.370 724.371 724.372 724.373 724.376 724.378 724.379 724.380 724.381 724.382 724.383 Section 724.400 724.401 724.402 724.403 724.403 724.404 724.409 724.410 724.412 724.413	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection Response Actions Surveying and Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Ignitable Wastes
724.370 724.371 724.372 724.373 724.376 724.378 724.380 724.381 724.382 724.383 Section 724.400 724.401 724.402 724.403 724.403 724.404 724.409 724.410 724.412 724.413 724.414	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection Response Actions Surveying and Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Incompatible Wastes Special Requirements for Bulk and Containerized Liquids
724.370 724.371 724.372 724.373 724.376 724.378 724.380 724.381 724.382 724.383 Section 724.400 724.401 724.402 724.403 724.403 724.404 724.409 724.410 724.412 724.413 724.414 724.415	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection Response Actions Surveying and Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Ignitable or Reactive Waste Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Sulk and Containerized Liquids Special Requirements for Containers
724.370 724.371 724.372 724.373 724.376 724.378 724.380 724.381 724.382 724.383 Section 724.400 724.401 724.402 724.403 724.403 724.404 724.409 724.410 724.412 724.413 724.414	Applicability Treatment Program Treatment Demonstration Design and Operating Requirements Food-chain Crops Unsaturated Zone Monitoring Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027 SUBPART N: LANDFILLS Applicability Design and Operating Requirements Action Leakage Rate Monitoring and Inspection Response Actions Surveying and Recordkeeping Closure and Post-closure Care Special Requirements for Ignitable or Reactive Waste Special Requirements for Incompatible Wastes Special Requirements for Incompatible Wastes Special Requirements for Bulk and Containerized Liquids

724.417 Special Requirements for Hazardous Wastes F020, F021, F022, F023,

F026 and F027

Section

SUBPART O: INCINERATORS

Section						
724.440						
724.441						
724.442						
724.443	Performance Standards					
724.444	Hazardous Waste Incinerator Permits					
724.445	Operating Requirements					
724.447	Monitoring and Inspections					
724.451	Closure					
	SUBPART S: CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS					
Section						
724.652	Corrective Action Management Units					
724.653	Temporary Units					
	SUBPART W: DRIP PADS					
Section						
724.670	Applicability					
724.671	Assessment of existing drip pad integrity					
724.672	Design and installation of new drip pads					
724.673	Design and operating requirements					
724.674						
724.675	Closure					
	SUBPART X: MISCELLANEOUS UNITS					
Section						
724.700	Applicability					
724.701	Environmental Performance Standards					
724.702	Monitoring, Analysis, Inspection, Response, Reporting and					
	Corrective Action					
724.703	Post-closure Care					
	SUBPART AA: AIR EMISSION STANDARDS FOR PROCESS VENTS					
Section						
724.930	Applicability					
724.931	Definitions					
724.932	Standards: Process Vents					
724.933	Standards: Closed-vent Systems and Control Devices					
724.934	Test methods and procedures					
724.935	Recordkeeping requirements					
724.936						
	SUBPART BB: AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS					
Section						
724.950	Applicability					
724.951	Definitions					
724.952	Standards: Pumps in Light Liquid Service					
724.953	Standards: Compressors					
724.954	Standards: Pressure Relief Devices in Gas/Vapor Service					
724.955						
724.956						
724.957						
724.958						
	Connectors					
724.959						
724.960						
724.961						
724.962						
724.962	•					
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- 724.964 Recordkeeping Requirements
- 724.965 Reporting Requirements

SUBPART CC: AIR EMISSION STANDARDS FOR TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS

724.980 Applic	<u>ability</u>	

- 724.981 Definitions
- 724.982 Standards: General
- 724.983 Waste Determination Procedures
- 724.984 Standards: Tanks
- 724.985 Standards: Surface Impoundments
- 724.986 Standards: Containers
- 724.987 Standards: Closed-vent Systems and Control Devices
- 724.988 Inspection and Monitoring Requirements
- 724.989 <u>Recordkeeping Requirements</u>
- 724.990 Reporting Requirements
- 724.991 Alternative Control Requirements for Tanks

SUBPART DD: CONTAINMENT BUILDINGS

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- 724.1100 Applicability
- 724.1101 Design and operating standards
- 724.1102 Closure and pPost-closure eCare

724.Appendix A	Record	keeping]	Instructions
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- 724.Appendix BEPA Report Form and Instructions (Repealed)724.Appendix DCochran's Approximation to the Behrens-Fisher Student's T-
Test724.Appendix EExamples of Potentially Incompatible Waste
- 724. Appendix I Groundwater Monitoring List

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

Adopted in R82-19, 53 PCB 131, at 7 Ill. Reg. 14059, effective SOURCE: October 12, 1983; amended in R84-9 at 9 Ill. Reg. 11964, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 1136, effective January 2, 1986; amended in R86-1 at 10 Ill. Reg. 14119, effective August 12, 1986; amended in R86-28 at 11 Ill. Reg. 6138, effective March 24, 1987; amended in R86-28 at 11 Ill. Reg. 8684, effective April 21, 1987; amended in R86-46 at 11 Ill. Reg. 13577, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19397, effective November 12, 1987; amended in R87-39 at 12 Ill. Reg. 13135, effective July 29, 1988; amended in R88-16 at 13 Ill. Reg. 458, effective December 28, 1988; amended in R89-1 at 13 Ill. Reg. 18527, effective November 13, 1989; amended in R90-2 at 14 Ill. Reg. 14511, effective August 22, 1990; amended in R90-10 at 14 Ill. Reg. 16658, effective September 25, 1990; amended in R90-11 at 15 Ill. Reg. 9654, effective June 17, 1991; amended in R91-1 at 15 Ill. Reg. 14572, effective October 1, 1991; amended in R91-13 at 16 Ill. Reg. 9833, effective June 9, 1992; amended in R92-1 at 16 Ill. Reg. 17702, effective November 6, 1992; amended in R92-10 at 17 Ill. Reg. 5806, effective March 26, 1993; amended in R93-4 at 17 Ill. Reg. 20830, effective November 22, 1993; amended in R93-16 at 18 Ill. Reg. 6973, effective April 26, 1994; amended in R94-7 at 18 Ill. Reg. 12487, effective July 29, 1994; amended in R94-17 at 18 Ill. Reg. 17601, effective November 23, 1994; amended in R95-6 at 19 Ill. Reg. ____, effective

SUBPART A: GENERAL PROVISIONS

Section 724.101 Purpose, Scope and Applicability

- a) The purpose of this Part is to establish minimum standards whichthat define the acceptable management of hazardous waste.
- b) The standards in this Part apply to owners and operators of all facilities whichthat treat, store, or dispose of hazardous waste, except as specifically provided otherwise in this Part or 35 Ill. Adm. Code 721.
- c) The requirements of this Part apply to a person disposing of hazardous waste by means of ocean disposal subject to a permit issued under the Marine Protection, Research and Sanctuaries Act (16 U.S.C. 1431-1434, 33 U.S.C. 1401) only to the extent they are included in a RCRA permit by rule granted to such a person under 35 Ill. Adm. Code 703.141. A "RCRA permit" is a permit required by Section 21(f) of the Environmental Protection Act and 35 Ill. Adm. Code 703.121.

BOARD NOTE: This Part does apply to the treatment or storage of hazardous waste before it is loaded onto an ocean vessel for incineration or disposal at sea.

d) The requirements of this Part apply to a person disposing of hazardous waste by means of underground injection subject to a permit issued by the Agency pursuant to Section 12(g) of the Environmental Protection Act only to the extent they are required by 35 Ill. Adm. Code 7047-.Subpart F.

BOARD NOTE: This Part does apply to the above-ground treatment or storage of hazardous waste before it is injected underground.

- e) The requirements of this Part apply to the owner or operator of a POTW (publicly owned treatment works) which that treats, stores, or disposes of hazardous waste only to the extent included in a RCRA permit by rule granted to such a person under 35 Ill. Adm. Code 703.141.
- f) This subsection corresponds with 40 CFR 264.1(f), which provides that the federal regulations do not apply to T/S/D activities in authorized states, except under limited, enumerated circumstances. This statement maintains structural consistency with U.S. EPA rules.
- g) The requirements of this Part do not apply to:
 - 1) The owner or operator of a facility permitted by the Agency under Section 21 of the Environmental Protection Act to manage municipal or industrial solid waste, if the only hazardous waste the facility treats, stores, or disposes of is excluded from regulation under this Part by 35 Ill. Adm. Code 721.105.

BOARD NOTE: The owner or operator may be subject to 35 Ill. Adm. Code 807 and may have to have a supplemental permit under 35 Ill. Adm. Code 807.210.

- 2) The owner or operator of a facility managing recyclable materials described in 35 Ill. Adm. Code $721.106(a)(2)_{T}$ through (a)(4) (except to the extent that requirements of this Part are referred to in 35 Ill. Adm. Code 726.Subparts C, F, G, or H or 35 Ill. Adm. Code 739).
- 3) A generator accumulating waste on-site in compliance with 35

Ill. Adm. Code 722.134.

- 4) A farmer disposing of waste pesticides from the farmer's own use in compliance with 35 Ill. Adm. Code 722.170.
- 5) The owner or operator of a totally enclosed treatment facility, as defined in 35 Ill. Adm. Code 720.110.
- 6) The owner or operator of an elementary neutralization unit or a wastewater treatment unit, as defined in 35 Ill. Adm. Code 720.110, provided that if the owner or operator is diluting hazardous ignitable (D001) wastes (other than the D001 High TOC Subcategory defined in 35 Ill. Adm. Code 728.Table \underline{PT}) or corresive reactive (D0023) waster to remove the characteristic before land disposal, the owner or operator must comply with the requirements set out in Section 724.117(b) of this party.
- 7) Immediate response:
 - A) Except as provided in subsection (fg)(8)(B) below, a person engaged in treatment or containment activities during immediate response to any of the following situations:
 - i) A discharge of a hazardous waste;
 - ii) An imminent and substantial threat of a discharge of hazardous waste;
 - iii) A discharge of a material whichthat, when discharged, becomes a hazardous waste when discharged.
 - B) An owner or operator of a facility otherwise regulated by this Part must comply with all applicable requirements of <u>724.</u>Subparts C and D.
 - C) Any person whethat is covered by subsection (fg)(8)(A) <u>above</u> and whethat continues or initiates hazardous waste treatment or containment activities after the immediate response is over is subject to all applicable requirements of this Part and 35 Ill. Adm. Code 702, 703, and 705 for those activities. Orr
- 8) A transporter storing manifested shipments of hazardous waste in containers meeting the requirements of 35 Ill. Adm. Code 722.130 at a transfer facility for a period of ten days or less.
- 9) The addition of absorbent materials to waste in a container (as defined in 35 Ill. Adm. Code 720) or the addition of waste to absorbent material in a container, provided these actions occur at the time waste is first placed in the container+, and Sections 724.117(b), 724.271, and 724.272 are complied with.
- h) This Part applies to owners and operators of facilities which that treat, store, or dispose of hazardous wastes referred to in 35 Ill. Adm. Code 728.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

SUBPART B: GENERAL FACILITY STANDARDS

Section 724.113 General Waste Analysis

- a) Analysis:
 - Before an owner or operator treats, stores, or disposes of any hazardous wastes, or non-hazardous wastes if applicable under Section 724.213(d), the owner or operator shall obtain a detailed chemical and physical analysis of a representative sample of the wastes. At a minimum, the analysis must contain all the information whichthat must be known to treat, store, or dispose of the waste in accordance with this Part and 35 Ill. Adm. Code 728.
 - 2) The analysis may include data developed under 35 Ill. Adm. Code 7217 and existing published or documented data on the hazardous waste or on hazardous waste generated from similar processes.

BOARD NOTE: For example, the facility's records of analyses performed on the waste before the effective date of these regulations, or studies conducted on hazardous waste generated from processes similar to that which generated the waste to be managed at the facility, may be included in the data base required to comply with subsection (a)(1) above. The owner or operator of an off-site facility may arrange for the generator of the hazardous waste to supply part or all of the information required by subsection (a)(1) above, except as otherwise specified in 35 Ill. Adm. Code 728.107(b) and (c). If the generator does not supply the information, and the owner or operator is responsible for obtaining the information required to comply with this Section.

- 3) The analysis must be repeated as necessary to ensure that it is accurate and up to date. At a minimum, the analysis must be repeated:
 - A) When the owner or operator is notified, or has reason to believe, that the process or operation generating the hazardous waste, or non-hazardous waste if applicable under Section 724.213(d), has changed; and
 - B) For off-site facilities, when the results of the inspection required in subsection (a)(4) below indicate that the hazardous waste received at the facility does not match the waste designated on the accompanying manifest or shipping paper.
- 4) The owner or operator of an off-site facility shall inspect and, if necessary, analyze each hazardous waste <u>movementshipment</u> received at the facility to determine whether it matches the identity of the waste specified on the accompanying manifest or shipping paper.
- b) The owner or operator shall develop and follow a written waste analysis plan whichthat describes the procedures whichthat it will carry out to comply with subsection (a) above. The owner or operator shall keep this plan at the facility. At a minimum, the

plan must specify:

- 1) The parameters for which each hazardous waste, or nonhazardous waste if applicable under Section 724.213(d), will be analyzed and the rationale for the selection of these parameters (i.e., how analysis for these parameters will provide sufficient information on the waste's properties to comply with subsection (a) above).
- 2) The test methods which that will be used to test for these parameters.
- 3) The sampling method whichthat will be used to obtain a representative sample of the waste to be analyzed. A representative sample may be obtained using either:
 - A) One of the sampling methods described in 35 Ill. Adm. Code 721.Appendix A; or
 - B) An equivalent sampling method.

BOARD NOTE: See 35 Ill. Adm. Code 720.121-for related discussion.

- 4) The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up to date.
- 5) For off-site facilities, the waste analyses that hazardous waste generators have agreed to supply.
- 6) Where applicable, the methods whichthat will be used to meet the additional waste analysis requirements for specific waste management methods as specified in Sections 724.117, 724.414, 724.441, 724.934(d), and 724.963(d), and 724.983 and 35 Ill. Adm. Code 728.107. And,
- 7) For surface impoundments exempted from land disposal restrictions under 35 Ill. Adm. Code 728.104(a), the procedures and schedules for:
 - A) The sampling of impoundment contents;
 - B) The analysis of test data; and τ
 - C) The annual removal of residues which that are not delisted under 35 Ill. Adm. Code 720.122 or which exhibit a characteristic of hazardous waster and either:
 - i) Do not meet applicable treatment standards of 35 Ill. Adm. Code 728.Subpart D; or
 - ii) Where no treatment standards have been established+, Souch residues are prohibited from land disposal under 35 Ill. Adm. Code 728.132 or 728.1397 or such residues are prohibited from land disposal under 35 Ill. Adm. Code 728.133(f).
- 8) For owners and operators seeking an exemption to the air emission standards of 724.Subpart CC in accordance with

Section 724.982:

- <u>A)</u> The procedures and schedules for waste sampling and analysis and the analysis of test data to verify the exemption, and
- <u>B)</u> Each generator's notice and certification of the volatile organic concentration in the waste if the waste is received from off site.
- c) For off-site facilities, the waste analysis plan required in subsection (b) above must also specify the procedures which that will be used to inspect and, if necessary, analyze each <u>movementshipment</u> of hazardous waste received at the facility to ensure that it matches the identity of the waste designated on the accompanying manifest or shipping paper. At a minimum, the plan must describe:
 - The procedures which that will be used to determine the identity of each movement of waste managed at the facility; and
 - 2) The sampling method whichthat will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling; and
 - 3) The procedures that the owner or operator of an off-site landfill receiving containerized hazardous waste will use to determine whether a hazardous waste generator or treater has added a biodegradable sorbent to the waste in the container.

BOARD NOTE: 35 Ill. Adm. Code 703_{τ} requires that the waste analysis plan be submitted with Part B of the permit application.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 724.115 General Inspection Requirements

- a) The owner or operator shall conduct inspections often enough to identify problems in time to correct them before they harm human health or the environment. The owner or operator shall inspect the facility for malfunctions and deterioration, operator errors, and discharges which that may be causing, or may lead to:
 - Release of hazardous waste constituents to the environment; or
 - 2) A threat to human health.
- b) Inspection schedule.
 - 1) The owner or operator shall develop and follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, or responding to environmental or human health hazards.
 - The owner or operator shall keep this schedule at the facility.

- 3) The schedule must identify the types of problems (e.g., malfunctions or deterioration) which that are to be looked for during the inspection (e.g., inoperative sump pump, leaking fitting, eroding dike, etc.).
- 4) The frequency of inspection may vary for the items on the schedule. However, it should be based on the rate of deterioration of the equipment and the probability of an environmental or human health incident if the deterioration, malfunction, or any operator error goes undetected between inspections. Areas subject to spills, such as loading and unloading areas, must be inspected daily when in use. At a minimum, the inspection schedule must include the items and frequencies called for in Sections 724.274, 724.293, 724.295, 724.326, 724.354, 724.378, 724.403, 724.447, 724.702, 724.933, 724.952, 724.953, and 724.958, <u>724.988</u>, and 724.991(b), where applicable.

BOARD NOTE: 35 Ill. Adm. Code 703 requires the inspection schedule to be submitted with Part B of the permit application. The Agency willmust evaluate the schedule along with the rest of the application to ensure that it adequately protects human health and the environment. As part of this review, the Agency may modify or amend the schedule as may be necessary.

- c) The owner or operator shall remedy any deterioration or malfunction of equipment or structures whichthat the inspection reveals on a schedule which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action must be taken immediately.
- d) The owner or operator shall record inspections in an inspection log or summary. The owner or operator shall keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made and the date, and nature of any repairs or other remedial actions.

(Source: Amended at 19 Ill. Reg. , effective)

SUBPART D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES

Section 724.156 Emergency Procedures

- a) Whenever there is an imminent or actual emergency situation, the emergency coordinator (or the designee when the emergency coordinator is on call) shall immediately:
 - Activate internal facility alarms or communication systems, where applicable, to notify all facility personnel; and
 - Notify appropriate state or local agencies with designated response roles if their help is needed.
- b) Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, amount, and areal extent of any released materials. The emergency coordinator may do this by observation or review of

facility records or manifests τ and, if necessary, by chemical analysis.

- c) Concurrently, the emergency coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment must consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).
- d) If the emergency coordinator determines that the facility has had a release, fire, or explosion that could threaten human health₇ or the environment₇ outside the facility, the emergency coordinator shall report the findings as follows:
 - If the assessment indicates that evacuation of local areas may be advisable, the emergency coordinator shall immediately notify appropriate local authorities. The emergency coordinator must be available to help appropriate officials decide whether local areas should be evacuated; and
 - 2) The emergency coordinator shall immediately notify either the government official designated as the on-scene coordinator for that geographical area (in the applicable regional contingency plan under 40 CFR Part-300) τ or the National Response Center (using their 24-hour toll free number 800-424-8802). The report must include:
 - A) Name and telephone number of reporter;
 - B) Name and address of facility;
 - C) Time and type of incident (e.g., release, fire);
 - D) Name and quantity of material(s) involved, to the extent known;
 - E) The extent of injuries, if any; and
 - F) The possible hazards to human health_{τ} or the environment_{τ} outside the facility.
- e) During an emergency, the emergency coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous waste at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing release waste, and removing or isolating containers.
- f) If the facility stops operations in response to a fire, explosion, or release, the emergency coordinator shall monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.
- g) Immediately after an emergency, the emergency coordinator shall provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility.

BOARD NOTE: Unless the owner or operator can demonstrate, in accordance with 35 Ill. Adm. Code $721.103(\underline{ed})$ or (\underline{de}) , that the recovered material is not a hazardous waste, the owner or operator becomes a generator of hazardous waste and shall manage it in accordance with all applicable requirements of 35 Ill. Adm. Code 722, 723, and 724.

- h) The emergency coordinator shall ensure that τ in the affected area(s) of the facility:
 - No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed; and
 - All emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed.
- i) The owner or operator shall notify the Agency₇ and appropriate state and local authorities₇ that the facility is in compliance with <u>paragraphsubsection</u> (h) <u>above</u> before operations are resumed in the affected area $\{s\}$ of the facility.
- j) The owner or operator shall note in the operating record the time, date, and details of any incident that requires implementing the contingency plan. Within 15 days after the incident, the owner or operator shall submit a written report on the incident to the Agency. The report must include:
 - Name, address, and telephone number of the owner or operator;
 - Name, address, and telephone number of the facility;
 - Date, time, and type of incident (e.g., fire, explosion);
 - Name and quantity of material(s) involved;
 - 5) The extent of injuries, if any;
 - 6) An assessment of actual or potential hazards to human health or the environment, where this is applicable; and
 - 7) Estimated quantity and disposition of recovered material that resulted from the incident.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

SUBPART E: MANIFEST SYSTEM, RECORDKEEPING AND REPORTING

Section 724.173 Operating Record

- a) The owner or operator shall keep a written operating record at the facility.
- b) The following information must be recorded τ as it becomes available τ and maintained in the operating record until closure of the facility:
 - A description and the quantity of each hazardous waste received, and the method or methods and date or dates of its

treatment, storage, or disposal at the facility, as required by <u>Section 724.Appendix A;</u>

2) The location of each hazardous waste within the facility and the quantity at each location. For disposal facilities, the location and quantity of each hazardous waste must be recorded on a map or diagram of each cell or disposal area. For all facilities, this information must include crossreferences to specific manifest document numbers, if the waste was accompanied by a manifest;

BOARD NOTE: See Section 724.219 for related requirements.

- 3) Records and results of waste analyses <u>and waste</u> <u>determinations</u> performed as specified in Sections 724.113, 724.117, 724.414, 724.441, 724.934, 724.963, <u>and 724.983</u> and in 35 Ill. Adm. Code 728.104(a) and 728.107;
- 4) Summary reports and details of all incidents that require implementing the contingency plan, as specified in Section 724.156(j);
- 5) Records and results of inspections, as required by Section 724.115(d) (except these data need to be kept only three years);
- 6) Monitoring, testing, or analytical data and corrective action data where required by <u>724.Subpart F or Sections</u> 724.119, 724.291, 724.293, 724.295, 724.322, 724.323, 724.326, 724.352 through 724.354, 724.376, 724.378, 724.380, 724.402 through 724.404, 724.409, 724.447, 724.702, 724.934(c) through (f), 724.935, 724.963(d) through (i), ex 724.964, <u>724.988</u>, <u>724.989</u>, and <u>724.991</u>;
- 7) For off-site facilities, notices to generators as specified in Section 724.112(b);
- 8) All closure cost estimates under Section 724.242 and, for disposal facilities, all post-closure cost estimates under Section 724.244;
- 9) A certification by the permittee, no less often than annually: that the permittee has a program in place to reduce the volume and toxicity of hazardous waste that the permittee generates, to the degree the permittee determines to be economically practicable; and that the proposed method of treatment, storage, or disposal is that practicable method currently available to the permittee which that minimizes the present and future threat to human health and the environment;
- 10) Records of the quantities (and date of placement) for each shipment of hazardous waste placed in land disposal units under an extension of the effective date of any land disposal restriction granted pursuant to 35 Ill. Adm. Code 728.105, a petition pursuant to 35 Ill. Adm. Code 728.106 or a certification under 35 Ill. Adm. Code 728.108, and the applicable notice required of a generator under 35 Ill. Adm. Code 728.107(a);
- 11) For an off-site treatment facility, a copy of the notice, and the certification and demonstration, if applicable,

required of the generator or the owner or operator under 35 Ill. Adm. Code 728.107 or 728.108;

- 12) For an on-site treatment facility, the information contained in the notice (except the manifest number), and the certification and demonstration, if applicable, required of the generator or the owner or operator under 35 Ill. Adm. Code 728.107 or 728.108;
- 13) For an off-site land disposal facility, a copy of the notice, and the certification and demonstration, if applicable, required of the generator or the owner or operator of a treatment facility under 35 Ill. Adm. Code 728.107 or 728.108, whichever is applicable; and
- 14) For an on-site land disposal facility, the information contained in the notice required of the generator or owner or operator of a treatment facility under 35 Ill. Adm. Code 728.107, except for the manifest number, and the certification and demonstration if applicable, required under 35 Ill. Adm. Code 728.108, whichever is applicable.
- 15) For an off-site storage facility, a copy of the notice, and the certification and demonstration if applicable, required of the generator or the owner or operator under 35 Ill. Adm. Code 728.107 or 728.108; and₇
- 16) For an on-site storage facility, the information contained in the notice (except the manifest number), and the certification and demonstration if applicable, required of the generator or the owner or operator under 35 Ill. Adm. Code 728.107 or 728.108.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 724.177 Additional Reports

In addition to submitting the annual report and unmanifested waste reports described in Sections 724.175 and 724.176, the owner or operator shall also report to the Agency:

- a) Releases, fires, and explosions, as specified in Section 724.156(j);
- b) Facility closures specified in Section 724.215; and
- c) As otherwise required by <u>724.</u>Subparts F, K through N, AA₁ and BB₁ and CC.

(Source: Amended at 19 Ill. Reg. , effective)

SUBPART I: USE AND MANAGEMENT OF CONTAINERS

Section 724.279 Air Emission Standards

The owner or operator shall manage all hazardous waste placed in a container in accordance with the requirements of 724.Subpart CC.

(Source: Added at 19 Ill. Reg. ____, effective _____)

SUBPART J: TANK SYSTEMS

Section 724.300 Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026 and F027Air Emission Standards

In addition to the other requirements of this Subpart, the following Requirements apply to tanks storing or treating hazardous wastes F020, F021, F022, F023, F026 and F027.

- a) Tanks must have systems designed and operated to detect and adequately contain spills or leaks. The design and operation of any containment system must reflect consideration of all relevant factors, including:
 - 1) Gapacity of the tank;
 - 2) Volumes and characteristics of wastes stored or treated in the tank;
 - 3) Method of collection of spills or leaks;
 - 4) The design and construction materials of the tank and containment system; and
 - 5) The need to prevent precipitation and run-on from entering into the system.
- b) As part of the contingency plan required by Subpart D, the owner or operator shall specify such procedures for responding to a spill or leak from the tank into the containment system as may be necessary to protect human health and the environment. These procedures must include measures for immediate removal of the waste from the system and replacement or repair of the leaking tank.

The owner or operator shall manage all hazardous waste placed in a tank in accordance with the requirements of 724.Subpart CC.

(Source: Section Repealed, new Section added at 19 Ill. Reg. _____, effective _____)

SUBPART K: SURFACE IMPOUNDMENTS

Section 724.332 Air Emission Standards

The owner or operator shall manage all hazardous waste placed in a surface impoundment in accordance with the requirements of 724.Subpart CC.

(Source: Added at 19 Ill. Reg. ____, effective _____)

SUBPART X: MISCELLANEOUS UNITS

Section 724.701 Environmental Performance Standards

A miscellaneous unit must be located, designed, constructed, operated, maintained, and closed in a manner that will ensure protection of human health and the environment. Permits for miscellaneous units are to contain such terms and provisions as are necessary to protect human health and the environment, including, but not limited to, as appropriate, design and operating requirements, detection and monitoring requirements, and requirements for responses to releases of hazardous waste or hazardous constituents from the unit. Permit terms and provisions must include those requirements of <u>724</u>.Subparts I through O and AA through CC₇ and of 35 Ill. Adm. Code 702, 703, and 730, that are appropriate for the miscellaneous unit being permitted. Protection of human health and the environment includes, but is not limited to:

- a) Prevention of any releases that may have adverse effects on human health or the environment due to migration of waste constituents in the groundwater or subsurface environment, considering:
 - The volume and physical and chemical characteristics of the waste in the unit, including its potential for migration through soil, liners, or other containing structures;
 - 2) The hydrologic and geologic characteristics of the unit and the surrounding area;
 - 3) The existing quality of groundwater, including other sources of contamination and their cumulative impact on the groundwater;
 - The quantity and direction of groundwater flow;
 - 5) The proximity to and withdrawal rates of current and potential groundwater users;
 - 6) The patterns of land use in the region;
 - 7) The potential for deposition or migration of waste constituents into subsurface physical structures, and into the root zone of food-chain crops and other vegetation;
 - The potential for health risks caused by human exposure to waste constituents; and
 - 9) The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents.
- b) Prevention of any releases that may have adverse effects on human health or the environment due to migration of waste constituents in surface water, or in wetlands, or on the soil surface, considering:
 - The volume and physical and chemical characteristics of the waste in the unit;
 - 2) The effectiveness and reliability of containing, confining, and collecting systems and structures in preventing migration;
 - 3) The hydrologic characteristics of the unit and surrounding area, including the topography of the land around the unit;
 - 4) The patterns of precipitation in the region;
 - 5) The quantity, quality, and direction of groundwater flow;
 - 6) The proximity of the unit to surface waters;
 - 7) The current and potential uses of the nearby surface waters

and any water quality standards in 35 Ill. Adm. Code 302 or 303;

- 8) The existing quality of surface waters and surface soils, including other sources of contamination and their cumulative impact on surface waters and surface soils;
- 9) The patterns of land use in the region;
- 10) The potential for health risks caused by human exposure to waste constituents; and
- 11) The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures casued by exposure to waste constituents.
- c) Prevention of any release that may have adverse effects on human health or the environment due to migration of waste constituents in the air, considering:
 - The volume and physical and chemical characteristics of the waste in the unit, including its potential for the emission and dispersal of gases, aerosols, and particulates;
 - The effectiveness and reliability of systems and structures to reduce or prevent emissions of hazardous constituents to the air;
 - 3) The operating characteristics of the unit;
 - 4) The atmospheric, meteorologic, and topographic characteristics of the unit and the surrounding area;
 - 5) The existing quality of the air, including other sources of contamination and their cumulative impact on the air;
 - 6) The potential for health risks caused by human exposure to waste constituents; and
 - 7) The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by waste constituents.

(Source: Amended at 19 Ill. Reg. , effective _____)

SUBPART AA: AIR EMISSION STANDARDS FOR PROCESS VENTS

Section 724.933 Standards: Closed-vent Systems and Control Devices

- a) Compliance Required.
 - Owners or operators of closed-vent systems and control devices used to comply with provisions of this Part shall comply with the provisions of this Section.
 - 2) The owner or operator of an existing facility whethat cannot install a closed-vent system and control device to comply with the provisions of this Subpart on the effective date that the facility becomes subject to the provisions of this Subpart shall prepare an implementation schedule that includes dates by which the closed-vent system and control

device will be installed and in operation. The controls must be installed as soon as possible, but the implementation schedule may allow up to 18 months after the effective date that the facility becomes subject to this Subpart for installation and startup. All units that begin operation after December 21, 1990, must comply with the rules immediately (i.e., must have control devices installed and operating on startup of the affected unit); the 2-year implementation schedule does not apply to these units.

- b) A control device involving vapor recovery (e.g., a condenser or adsorber) must be designed and operated to recover the organic vapors vented to it with an efficiency of 95 weight percent or greater unless the total organic emission limits of Section 724.932(a)(1) for all affected process vents is attained at an efficiency less than 95 weight percent.
- c) An enclosed combustion device (e.g., a vapor incinerator, boiler, or process heater) must be designed and operated to reduce the organic emissions vented to it by 95 weight percent or greater; to achieve a total organic compound concentration of 20 ppmv, expressed as the sum of the actual compounds, and not in carbon equivalents, on a dry basis, corrected to 3 percent oxygen; or to provide a minimum residence time of 0.50 seconds at a minimum temperature of 760° C. If a boiler or process heater is used as the control device, then the vent stream must be introduced into the flame zone of the boiler or process heater.
- d) Flares:
 - A flare must be designed for and operated with no visible emissions, as determined by the methods specified in subsection (e)(1), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
 - 2) A flare must be operated with a flame present at all times, as determined by the methods specified in subsection (f)(2)(e<u>C</u>) below.
 - 3) A flare must be used only if the net heating value of the gas being combusted is 11.2 MJ/scm (300 Btu/scf) or greater ifand the flare is steam-assisted or air-assisted; or if the net heating value of the gas being combusted is 7.45 MJ/scm (200 Btu/scf) or greater ifand the flare is nonassisted. The net heating value of the gas being combusted must be determined by the methods specified in subsection (e)(2) below.
 - 4) Exit Velocity.
 - A) A steam-assisted or nonassisted flare must be designed for and operated with an exit velocity, as determined by the methods specified in subsection (e)(3) below, less than 18.3 m/s (60 ft/s), except as provided in subsections (d)(4)(B) and (d)(4)(C) below.
 - B) A steam-assisted or nonassisted flare designed for and operated with an exit velocity, as determined by the methods specified in subsection (e)(3) below, equal to or greater than 18.3 m/s (60 ft/s) but less than 122 m/s (400 ft/s) is allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm

(1000 Btu/scf).

- C) A steam-assisted or nonassisted flare designed for and operated with an exit velocity, as determined by the methods specified in subsection (e)(3) <u>below</u>, less than the velocity, V, as determined by the method specified in subsection (e)(4) <u>below</u> and less than 122 m/s (400 ft/s) is allowed.
- 5) An air-assisted flare must be designed and operated with an exit velocity less than the velocity, V₁ as determined by the method specified in subsection (e)(5)<u>below</u>.
- 6) A flare used to comply with this Section must be steamassisted, air-assisted, or nonassisted.
- e) <u>Compliance determination and equations.</u>
 - Reference Method 22 in 40 CFR 60, incorporated by reference in 35 Ill. Adm. Code 720.111, must be used to determine the compliance of a flare with the visible emission provisions of this Subpart. The observation period is 2 hours and must be used according to Method 22.
 - 2) The net heating value of the gas being combusted in a flare must be calculated using the following equation:

H = K * SUM(Ci * Hi)

$$H_T = K \times \sum_{i=1}^n C_i \times H_i$$

Where:

 H_T is the net heating value of the sample in MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25° C and 760 mm Hg, but the standard temperature for determining the volume corrersponding to 1 mole is 20° C.

K = 1.74 E - 7 (1/ppm)(g mol/scm)(MJ/kcal) where standard temperature for $(g mol/scm) 20^{\circ} C$.

 $\underline{\text{SUM}}\underline{\Sigma}(Xi)$ means the sum of the values of X for each component i, from i=1 to n.

 C_{i_1} is the concentration of sample component i in ppm on a wet basis, as measured for organics by Reference Method 18 in 40 CFR 60, and for carbon monoxide, by ASTM D_1946<u>-90</u>, incorporated by reference in 35 Ill. Adm. Code 720.111.

 $H_{\dot{t}_i}$ is the net heat of combustion of sample component i, kcal/gmol at 25° C and 760 mm Hg. The heats of combustion must be determined using ASTM D_2382, incorporated by reference in 35 Ill. Adm. Code 720.111, if published values are not available or cannot be calculated.

- 3) The actual exit velocity of a flare must be determined by dividing the volumetric flow rate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D in 40 CFR 60, incorporated by reference in 35 Ill. Adm. Code 720.111, as appropriate, by the unobstructed (free) cross-sectional area of the flare tip.
- 4) The maximum allowed velocity in m/s, V for a flare complying with subsection (d)(4)(C) must be determined by the following equation:

LOG(V) = (H + 28.8) / 31.7

$$\log_{10} V_{\text{max}} = \frac{H_T + 28.8}{31.7}$$

Where:

LOGlog₁₀ means logarithm to the base 10

 H_T is the net heating value as determined in subsection (e)(2).

5) The maximum allowed velocity in m/s, V for an air-assisted flare must be determined by the following equation:

 $V=8.706+0.7084 \times H_{T}$

v = 8.706 + 0.7084H

Where:

 H_T is the net heating value as determined in subsection (e)(2) below.

- f) The owner or operator shall monitor and inspect each control device required to comply with this Section to ensure proper operation and maintenance of the control device by implementing the following requirements:
 - 1) Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow indicator that provides a record of stream flow from each affected process vent to the control device at least once every hour. The flow indicator sensor must be installed in the vent stream at the nearest feasible point to the control device inlet but before the point at which the vent streams are combined.
 - 2) Install, calibrate, maintain, and operate according to the manufacturer's specifications a device to continuously monitor control device operation as specified below:
 - A) For a thermal vapor incinerator, a temperature monitoring device equipped with a continuous recorder. The device must have accuracy of ± 1 percent of the temperature being monitored in <u>°</u> C or $\pm 0.5^{\circ}$ C, whichever is greater. $\pm T$ he temperature sensor must be

installed at a location in the combustion chamber downstream of the combustion zone.

- B) For a catalytic vapor incinerator, a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature at two locations and have an accuracy of ± 1 percent of the temperature being monitored in <u>°</u> C or $\pm 0.5^{\circ}$ C, whichever is greater. One temperature sensor must be installed in the vent stream at the nearest feasible point to the catalyst bed inlet and a second temperature sensor must be installed in the vent stream at the nearest feasible point to the catalyst bed outlet.
- C) For a flare, a heat sensing monitoring device equipped with a continuous recorder that indicates the continuous ignition of the pilot flame.
- D) For a boiler or process heater having a design heat input capacity less than 44 MW, a temperature monitoring device equipped with a continuous recorder. The device must have an accuracy of ± 1 percent of the temperature being monitored in <u>°</u> C or $\pm 0.5^{\circ}$ C, whichever is greater. The temperature sensor must be installed at a location in the furnace downstream of the combustion zone.
- E) For a boiler or process heater having a design heat input capacity greater than or equal to 44 MW, a monitoring device equipped with a continuous recorder to measure a parameter(s) that indicates good combustion operating practices are being used.
- F) For a condenser, either:
 - i) A monitoring device equipped with a continuous recorder to measure the concentration level of the organic compounds in the exhaust vent stream from the condenser; or
 - ii) A temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature at two locations and have an accuracy of ± 1 percent of the temperature being monitored in <u>°</u> C or $\pm 0.5^{\circ}$ C, whichever is greater. One temperature sensor must be installed at a location in the exhaust vent stream from the condenser, and a second temperature sensor must be installed at a location in the condenser.
- G) For a carbon adsorption system that regenerates the carbon bed directly in the control device such as a fixed-bed carbon adsorber, either:
 - i) A monitoring device equipped with a continuous recorder to measure the concentration level of the organic compounds in the exhaust vent stream from the carbon bed, or

- ii) A monitoring device equipped with a continuous recorder to measure a parameter that indicates the carbon bed is regenerated on a regular, predetermined time cycle.
- 3) Inspect the readings from each monitoring device required by subsection (f)(1) and (f)(2) at least once each operating day to check control device operation and, if necessary, immediately implement the corrective measures necessary to ensure the control device operates in compliance with the requirements of this Section.
- g) An owner or operator using a carbon adsorption system such as a fixed-bed carbon adsorber that regenerates the carbon bed directly onsite in the control device shall replace the existing carbon in the control device with fresh carbon at a regular, predetermined time interval that is no longer than the carbon service life established as a requirement of Section 724.935(b)(4)(C)(vi).
- h) An owner or operator using a carbon adsorption system such as a carbon canister that does not regenerate the carbon bed directly onsite in the control device shall replace the existing carbon in the control device with fresh carbon on a regular basis by using one of the following procedures:
 - 1) Monitor the concentration level of the organic compounds in the exhaust vent stream from the carbon adsorption system on a regular schedule, and replace the existing carbon with fresh carbon immediately when carbon breakthrough is indicated. The monitoring frequency must be daily or at an interval no greater than 20 percent of the time required to consume the total carbon working capacity established as a requirement of Section 724.935(b)(4)(C)(vii), whichever is longer.
 - 2) Replace the existing carbon with fresh carbon at a regular, predetermined time interval that is less than the design carbon replacement interval established as a requirement of Section 724.935(b)(4)(C)(vii).
- i) An alternative operational or process parameter may be monitored if the operator demonstrates that the parameter will ensure that the control device is operated in conformance with these standards and the control device's design specifications.
- j) An owner or operator of an affected facility seeking to comply with the provisions of this Part by using a control device other than a thermal vapor incinerator, catalytic vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system is required to develop documentation including sufficient information to describe the control device operation and identify the process parameter or parameters that indicate proper operation and maintenance of the control device.
- k) Closed vent systems.
 - Closed-vent systems must be designed for and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and by visual inspections, as determined by the methods specified at Section 724.934(b).

- 2) Closed-vent systems must be monitored to determine compliance with this Section during the initial leak detection monitoring, which must be conducted by the date that the facility becomes subject to the provisions of this Section annually, and at other times as specified in the RCRA permit. For the annual leak detection monitoring after the initial leak detection monitoring, the owner or operator is not required to monitor those closed-vent system components that operate in vacuum service or those closedvent system joints, seams, or other connections that are permanently or semi-permanently sealed (e.g., a welded joint between two sections of metal pipe or a bolted and gasketed pipe flange).
- 3) Detectable emissions, as indicated by an instrument reading greater than 500 ppm and visual inspections, must be controlled as soon as practicable, but not later than 15 calendar days after the emission is detected.
- 4) A first attempt at repair must be made no later than 5 calendar days after the emission is detected..
- Closed-vent systems and control devices used to comply with provisions of this Subpart must be operated at all times when emissions may be vented to them.
- m) The owner or operator using a carbon adsorption system shall document that all carbon removed from a carbon adsorption system to comply with subsections (g) and (h) above is managed in one of the following manners:
 - 1) It is reqenerated or reactivated in a thermal treatment unit that is permitted under 724.Subpart X,
 - 2) It is incinerated by a process that is permitted under 724.Subpart O, or
 - 3) It is burned in a boiler or industrial furnace that is permitted under 724.Subpart H.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART BB: AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS

Section 724.963 Test Methods and Procedures

- a) Each owner or operator subject to the provisions of this Subpart shall comply with the test methods and procedures requirements provided in this Section.
- b) Leak detection monitoring, as required in Sections 724.952 through 724.962, must comply with the following requirements:
 - Monitoring must comply with Reference Method 21 in 40 CFR 60, incorporated by reference in 35 Ill. Adm. Code 720.111.
 - 2) The detection instrument must meet the performance criteria of Reference Method 21.
 - 3) The instrument must be calibrated before use on each day of its use by the procedures specified in Reference Method 21.

- 4) Calibration gases must be:
 - A) Zero air (less than 10 ppm of hydrocarbon in air).
 - B) A mixture of methane or n-hexane and air at a concentration of approximately, but less than 10,000 ppm methane or n-hexane.
- 5) The instrument probe must be traversed around all potential leak interfaces as close to the interface as possible as described in Reference Method 21.
- c) When equipment is tested for compliance with no detectable emissions, as required in Sections 724.952(e), 724.953(i), 724.954, and 724.957(f), the test must comply with the following requirements:
 - The requirements of subsections (b)(1) through (b)(4) above apply.
 - 2) The background level must be determined as set forth in Reference Method 21.
 - 3) The instrument probe must be traversed around all potential leak interfaces as close to the interface as possible as described in Reference Method 21.
 - 4) This arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.
- d) In accordance with the waste analysis plan required by Section 724.113(b), an owner or operator of a facility shall determine, for each piece of equipment, whether the equipment contains or contacts a hazardous waste with organic concentration that equals or exceeds 10 percent by weight using the following:
 - Methods described in ASTM Methods D 2267-88, <u>E 168-88</u>, E 169-87, <u>E 168, and</u> E 260-85, incorporated by reference in 35 Ill. Adm. Code 720.111;
 - 2) Method 9060 or 8240 of SW-846, incorporated by reference in 35 Ill. Adm. Code 720.111; or
 - 3) Application of the knowledge of the nature of the hazardous wastestream or the process by which it was produced. Documentation of a waste determination by knowledge is required. Examples of documentation that must be used to support a determination under this provision include production process information documenting that no organic compounds are used, information that the waste is generated by a process that is identical to a process at the same or another facility that has previously been demonstrated by direct measurement to have a total organic content less than 10 percent, or prior speciation analysis results on the same wastestream where it is also documented that no process changes have occurred since that analysis that could affect the waste total organic concentration.
- e) If an owner or operator determines that a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the determination can be revised

only after following the procedures in subsection (d)(1) or (d)(2) above.

- f) When an owner or operator and the Agency do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the procedures in subsection (d)(1) or (d)(2) above must be used to resolve the dispute.
- g) Samples used in determining the percent organic content must be representative of the highest total organic content hazardous waste that is expected to be contained in or contact the equipment.
- h) To determine if pumps or valves are in light liquid service, the vapor pressures of constituents must either be obtained from standard reference texts or be determined by ASTM D-_2879-86, incorporated by reference in 35 Ill. Adm. Code 720.111.
- i) Performance tests to determine if a control device achieves 95 weight percent organic emission reduction must comply with the procedures of Section 724.934(c)(1) through (c)(4).

(Source: Amended at 19 Ill. Reg. ____, effective _____

SUBPART CC: AIR EMISSION STANDARDS FOR TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS

Section 724.980 Applicability

a) The requirements of this Subpart apply, effective December 6, 1995, to owners and operators of all facilities that treat, store, or dispose of hazardous waste in tanks, surface impoundments, or containers subject to 724.Subparts I, J, or K, except as Section 724.101 and subsection (b) below provide otherwise.

BOARD NOTE: U.S. EPA adopted these regulations at 59 Fed. Reg. 62896 (Dec. 6, 1994), effective June 6, 1995. At 60 Fed. Reg. 26828 (May 19, 1995), U.S. EPA delayed the effective date until December 6, 1995. If action by U.S. EPA or a decision of a federal court changes the effectiveness of these regulations, the Board does not intend that the 724.Subpart CC rules be enforceable to the extent that they become more stringent that the federal regulations upon which they are based.

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- b) The requirements of this Subpart do not apply to the following waste management units at the facility:
 - 1) A waste management unit that holds hazardous waste placed in the unit before December 6, 1995, and in which no hazardous waste is added to the unit on or after this date.
 - $\frac{2)}{0.1 \text{ m}^3 (3.5 \text{ ft}^3 \text{ or } 26.4 \text{ gal}).}$
 - 3) A tank in which an owner or operator has stopped adding hazardous waste and the owner or operator has begun implementing or completed closure pursuant to an approved closure plan.
 - 4) A surface impoundment in which an owner or operator has

stopped adding hazardous waste (except to implement an approved closure plan) and the owner or operator has begun implementing or completed closure pursuant to an approved closure plan.

- 5) A waste management unit that is used solely for on-site treatment or storage of hazardous waste that is generated as the result of implementing remedial activities required pursuant to the Act or Board regulations or under the corrective action authorities of RCRA sections 3004(u), 3004(v) or 3008(h); CERCLA authorities; or similar federal or state authorities.
- 6) <u>A waste management unit that is used solely for the</u> management of radioactive mixed waste in accordance with all applicable regulations under the authority of the Atomic Energy Act (42 U.S.C. 2011 et seq.) and the Nuclear Waste Policy Act.
- c) For the owner and operator of a facility subject to this Subpart and who received a final RCRA permit prior to December 6, 1995, the requirements of this Subpart shall be incorporated into the permit when the permit is reissued, renewed, or modified in accordance with the requirements of 35 Ill. Adm. Code 703 and 705. Until such date when the owner and operator receives a final permit incorporating the requirements of this Subpart, the owner and operator is subject to the requirements of 35 Ill. Adm. Code 725.Subpart CC.

(Source: Added at 19 Ill. Reg. _____, effective _____)

Section 724.981 Definitions

As used in this Subpart, all terms shall have the meaning given to them in 35 Ill. Adm. Code 725.981, RCRA, and 35 Ill. Adm. Code 720.110.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.982 Standards: General

- a) This Section applies to the management of hazardous waste in tanks, surface impoundments, and containers subject to this Subpart.
- b) The owner or operator shall control air emissions from each waste management unit in accordance with standards specified in Section 724.984 through 724.987, as applicable to the waste management unit, except as provided for in subsection (c) below.
- c) A waste management unit is exempted from standards specified in Sections 724.984 through 724.987, provided that all hazardous waste placed in the waste management unit is determined by the owner or operator to meet either of the following conditions:
 - 1) The average VO concentration of the hazardous waste at the point of waste origination is less than 100 parts per million by weight (ppmw). The average VO concentration shall be determined by the procedures specified in Section 724.983(a).
 - 2) The organic content of the hazardous waste has been reduced by an organic destruction or removal process that achieves

any one of the following conditions:

- A) The process removes or destroys the organics contained in the hazardous waste to a level such that the average VO concentration of the hazardous waste at the point of waste treatment is less than the exit concentration limit (C,) established for the process. The average VO concentration of the hazardous waste at the point of waste treatment and the exit concentration limit for the process shall be determined using the procedures specified in Section 724.983(b).
- B) The process removes or destroys the organics contained in the hazardous waste to a level such that the organic reduction efficiency (R) for the process is equal to or greater than 95 percent, and the average VO concentration of the hazardous waste at the point of waste treatment is less than 50 ppmw. The organic reduction efficiency for the process and the average VO concentration of the hazardous waste at the point of waste treatment shall be determined using the procedures specified in Section 724.983(b).
- C) The process removes or destroys the organics contained in the hazardous waste to a level such that the actual organic mass removal rate (MR) for the process is greater than the required organic mass removal rate (RMR) established for the process. The required organic mass removal rate and the actual organic mass removal rate for the process shall be determined using the procedures specified in Section 724.983(b).
- D) The process is a biological process that destroys or degrades the organics contained in the hazardous waster so that either of the following conditions is met:
 - i) The organic reduction efficiency (R) for the process is equal to or greater than 95 percent, and the organic biodegradation efficiency (R_{bio}) for the process is equal to or greater than 95 percent. The organic reduction efficiency and the organic biodegradation efficiency for the process shall be determined in accordance with the procedures specified in Section 724.983(b).
 - ii) The total actual organic mass biodegradation rate (MR_{bio}) for all hazardous waste treated by the process is equal to or greater than the required organic mass removal rate (RMR). The required organic mass removal rate and the actual organic mass biodegradation rate for the process shall be determined using the procedures specified in Section 724.983(b).
- E) The process removes or destroys the organics contained in the hazardous waste and meets all of the following conditions:
 - i) All of the materials entering the process are hazardous wastes.

- ii) From the point of waste origination through the point where the hazardous waste enters the process, the hazardous waste is continuously managed in waste management units which use air emission controls in accordance with the standards specified in Sections 724.984 through 724.987, as applicable to the waste management unit.
- iii) The average VO concentration of the hazardous waste at the point of waste treatment is less than the lowest average VO concentration at the point of waste origination, determined for each of the individual hazardous waste streams entering the process, or 100 ppmw, whichever value is lower. The average VO concentration of each individual hazardous waste stream at the point of waste origination shall be determined using the procedure specified in Section 724.983(a). The average VO concentration of the hazardous waste at the point of waste treatment shall be determined using the procedure specified in Section 724.983(b).
- F) <u>A hazardous waste incinerator for which the owner or</u> <u>operator has either:</u>
 - i) Been issued a final permit under 35 Ill. Adm. Code 703 and 705, and designs and operates the unit in accordance with the requirements of 724.Subpart O; or
 - <u>ii)</u> Has certified compliance with the interim status requirements of 35 Ill. Adm. Code 725.Subpart O.
- <u>G)</u> <u>A boiler or industrial furnace for which the owner or operator has either:</u>
 - i) Been issued a final permit under 35 Ill. Adm. Code 703 and 705, and designs and operates the unit in accordance with the requirements of 35 Ill. Adm. Code 726.Subpart H; or
 - <u>ii)</u> Has certified compliance with the interim status requirements of 35 Ill. Adm. Code 726.Subpart H.
- d) When a process is used for the purpose of treating a hazardous waste to meet one of the sets of conditions specified in subsections (c)(2)(A) through (c)(2)(E) above, each material removed from or exiting the process that is not a hazardous waste but which has an average VO concentration equal to or greater than 100 ppmw shall be managed in a waste management unit in accordance with the requirements of subsection (b) above.
- e) The Agency may at any time perform or request that the owner or operator perform a waste determination for a hazardous waste managed in a tank, surface impoundment, or container that is exempted from using air emission controls under the provisions of this Section as follows:
 - 1) The waste determination for average VO concentration of a hazardous waste at the point of waste origination shall be

performed using direct measurement in accordance with the applicable requirements of Section 724.983(a). The waste determination for a hazardous waste at the point of waste treatment shall be performed in accordance with the applicable requirements of Section 724.983(b).

- 2) Where the owner or operator is requested to perform the waste determination, the Agency may elect to have an authorized representative observe the collection of the hazardous waste samples used for the analysis.
- 3) Where the results of the waste determination performed or requested by the Agency do not agree with the results of a waste determination performed by the owner or operator using knowledge of the waste, then the results of the waste determination performed in accordance with the requirements of subsection (e)(1) above shall be used to establish compliance with the requirements of this Subpart.
- 4) Where the owner or operator has used an averaging period greater than one hour for determining the average VO concentration of a hazardous waste at the point of waste origination, the Agency may elect to establish compliance with this Subpart by performing or requesting that the owner or operator perform a waste determination using direct measurement based on waste samples collected within a onehour period as follows:
 - A) The average VO concentration of the hazardous waste at the point of waste origination shall be determined by direct measurement in accordance with the requirements of Section 724.983(a).
 - B) Results of the waste determination performed or requested by the Agency showing that the average VO concentration of the hazardous waste at the point of waste origination is equal to or greater than 100 ppmw shall constitute noncompliance with this Subpart, except in a case as provided for in subsection (e)(4)(C) below.
 - <u>C)</u> Where the average VO concentration of the hazardous waste at the point of waste origination previously has been determined by the owner or operator using an averaging period greater than one hour to be less than 100 ppmw but because of normal operating process variations the VO concentration of the hazardous waste determined by direct measurement for any given onehour period may be equal to or greater than 100 ppmw, information that was used by the owner or operator to determine the average VO concentration of the hazardous waste (e.g., test results, measurements, calculations, and other documentation) and recorded in the facility records in accordance with the requirements of Section 724.983(a) and Section 724.989 shall be considered by the Agency together with the results of the waste determination performed or requested by the Agency in establishing compliance with this Subpart.

(Source:	Added at	t 19	111.	Reg.	, effective)
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Section 724.983 Waste Determination Procedures

- a) Waste determination procedure for average volatile organic (VO) concentration of a hazardous waste at the point of waste origination.
 - 1) An owner or operator shall determine the average VO concentration at the point of waste origination for each hazardous waste placed in waste management units exempted under the provisions of Section 724.982(c)(1) from using air emission controls in accordance with standards specified in Section 724.984 through Section 724.987, as applicable to the waste management unit.
 - 2) The VO concentration at the point of waste origination for a hazardous waste shall be determined in accordance with the procedures specified in 35 Ill. Adm. Code 725.984(a)(2) through (a)(6).
- b) Waste determination procedures for treated hazardous waste.
 - 1) An owner or operator shall perform the applicable waste determinations for each treated hazardous waste placed in waste management units exempted under the provisions of Section 724.982(c)(2) from using air emission controls in accordance with standards specified in Section 724.984 through 724.987, as applicable to the waste management unit.
 - 2) The waste determination for a treated hazardous waste shall be performed in accordance with the procedures specified in 35 Ill. Adm. Code 725.984(b)(2) through (b)(10), as applicable to the treated hazardous waste.
- <u>c)</u> <u>Procedure to determine the maximum organic vapor pressure of a hazardous waste in a tank.</u>
 - 1) An owner or operator shall determine the maximum organic vapor pressure for each hazardous waste placed in tanks using air emission controls in accordance with standards specified in Section 724.984(c).
 - 2) The maximum organic vapor pressure of the hazardous waste shall be determined in accordance with the procedures specified in 35 Ill. Adm. Code 725.984(c)(2) through (c)(4).

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.984 Standards: Tanks

- a) This Section applies to owners and operators of tanks subject to this Subpart into which any hazardous waste is placed, except for the following tanks:
 - 1) A tank in which all hazardous waste entering the tank meets the conditions specified in Section 724.982(c), or
 - 2) <u>A tank used for biological treatment of hazardous waste in accordance with the requirements of Section</u> 724.982(c)(2)(D).
- b) The owner or operator shall place the hazardous waste into one of the following tanks:

- 1) A tank equipped with a cover (e.g., a fixed roof) that is vented through a closed-vent system to a control device in accordance with the requirements specified in subsection (d) below;
- 2) A tank equipped with a fixed roof and internal floating roof in accordance with the requirements of Section 724.991;
- 3) A tank equipped with an external floating roof in accordance with the requirements of Section 724.991; or
- 4) A pressure tank that is designed to operate as a closed system such that the tank operates with no detectable organic emissions at all times that hazardous waste is in the tank except as provided for in subsection (g) below.
- c) As an alternative to complying with subsection (b) above, an owner or operator may place hazardous waste in a tank equipped with a cover (e.g., a fixed roof) meeting the requirements specified in subsection (d)(1) below when the hazardous waste is determined to meet all of the following conditions:
 - 1) The hazardous waste is not mixed, stirred, agitated, or circulated within the tank by the owner or operator using a process that results in splashing, frothing, or visible turbulent flow on the waste surface during normal process operations;
 - 2) The hazardous waste in the tank is not heated by the owner or operator except during conditions requiring that the waste be heated to prevent the waste from freezing or to maintain adequate waste flow conditions for continuing normal process operations;
 - 3) The hazardous waste in the tank is not treated by the owner or operator using a waste stabilization process or a process that produces an exothermic reaction; and
 - 4) The maximum organic vapor pressure of the hazardous waste in the tank, as determined using the procedure specified in Section 724.983(c), is less than the following applicable value:
 - A) If the tank design capacity is equal to or greater than 151 m³ (5333 ft³ or 39,887 gal), then the maximum organic vapor pressure shall be less than 5.2 kPa (0.75 psia or 39 mm Hg);
 - B) If the tank design capacity is equal to or greater than 75 m³ (2649 ft³ or 19,810 gal) but less than 151 m³ (5333 ft³ or 39,887 gal), then the maximum organic vapor pressure shall be less than 27.6 kPa (4.0 psia or 207 mm Hg); or
 - C) If the tank design capacity is less than 75 m³ (2649 ft³ or 19,810 gal), then the maximum organic vapor pressure shall be less than 76.6 kPa (11.1 psia or 574 mm Hg).
- <u>d)</u> To comply with subsection (b)(1) above, the owner or operator shall design, install, operate, and maintain a cover that vents the organic vapors emitted from hazardous waste in the tank

through a closed-vent system connected to a control device.

- 1) The cover shall be designed and operated to meet the following requirements:
 - A) The cover and all cover openings (e.g., access hatches, sampling ports, and gauge wells) shall be designed to operate with no detectable organic emissions when all cover openings are secured in a closed, sealed position; and
 - B) Each cover opening shall be secured in a closed, sealed position (e.g., covered by a gasketed lid or cap) at all times that hazardous waste is in the tank except as provided for in subsection (f) below.
- 2) The closed-vent system and control device shall be designed and operated in accordance with the requirements of Section 724.987.
- e) The owner and operator shall install, operate, and maintain enclosed pipes or other closed-systems to:

BOARD NOTE: U.S. EPA considers a drain system that meets the requirements of 40 CFR 61.346(a)(1) or (b)(1) through (b)(3) to be a "closed-system". The Board intends that this meaning be included in the use of that term for the purposes of this Subpart.

- 1) Transfer all hazardous waste to the tank from another tank, surface impoundment, or container subject to this Subpart except for those hazardous wastes that meet the conditions specified in Section 724.982(c); and
- 2) Transfer all hazardous waste from the tank to another tank, surface impoundment, or container subject to this Subpart except for those hazardous wastes that meet the conditions specified in Section 724.982(c).
- f) Each cover opening shall be secured in a closed, sealed position (e.g., covered by a gasketed lid) at all times that hazardous waste is in the tank except when it is necessary to use the cover opening to:
 - 1) Add, remove, inspect, or sample the material in the tank;
 - 2) Inspect, maintain, repair, or replace equipment located inside the tank; or
 - 3) Vent gases or vapors from the tank to a closed-vent system connected to a control device that is designed and operated in accordance with the requirements of Section 724.987.
- g) One or more safety devices that vent directly to the atmosphere may be used on the tank, cover, closed-vent system, or control device provided each safety device meets all of the following conditions:
 - 1) The safety device is not used for planned or routine venting of organic vapors from the tank or closed-vent system connected to a control device; and
 - 2) The safety device remains in a closed, sealed position at

all times, except when an unplanned event requires that the device open for the purpose of preventing physical damage or permanent deformation of the tank, cover, closed-vent system, or control device in accordance with good engineering and safety practices for handling flammable, combustible, explosive, or other hazardous materials. An example of an unplanned event is a sudden power outage.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.985 Standards: Surface Impoundments

- a) This Section applies to owners and operators of surface impoundments subject to this Subpart into which any hazardous waste is placed except for the following surface impoundments:
 - 1) A surface impoundment in which all hazardous waste entering the surface impoundment meets the conditions specified in Section 724.982(c); or
 - 2) A surface impoundment used for biological treatment of hazardous waste in accordance with the requirements of Section 724.982(c)(2)(D).
- b) The owner or operator shall place the hazardous waste into a surface impoundment equipped with a cover (e.g., an air-supported structure or a rigid cover) that is vented through a closed-vent system to a control device meeting the requirements specified in subsection (d) below.
- c) As an alternative to complying with subsection (b) above, an owner or operator may place hazardous waste in a surface impoundment equipped with a floating membrane cover meeting the requirements specified in subsection (e) below when the hazardous waste is determined to meet all of the following conditions:
 - 1) The hazardous waste is not mixed, stirred, agitated, or circulated within the surface impoundment by the owner or operator using a process that results in splashing, frothing, or visible turbulent flow on the waste surface during normal process operations;
 - 2) The hazardous waste in the surface impoundment is not heated by the owner or operator; and
 - 3) The hazardous waste is not treated by the owner or operator using a waste stabilization process or a process that produces an exothermic reaction.
- d) To comply with subsection (b)(1) above, the owner or operator shall design, install, operate, and maintain a cover that vents the organic vapors emitted from hazardous waste in the surface impoundment through a closed-vent system connected to a control device.
 - 1) The cover shall be designed and operated to meet the following requirements:
 - A) The cover and all cover openings (e.g., access hatches, sampling ports, and gauge wells) shall be designed to operate with no detectable organic emissions when all cover openings are secured in a

closed, sealed position;

- B) Each cover opening shall be secured in the closed, sealed position (e.g., covered by a gasketed lid or cap) at all times that hazardous waste is in the surface impoundment, except as provided for in subsection (g) below; and
- C) The closed-vent system and control device shall be designed and operated in accordance with Section 724.987.
- e) To comply with subsection (c) above, the owner or operator shall design, install, operate, and maintain a floating membrane cover that meets all of the requirements specified in 35 Ill. Adm. Code 725.986(e)(1) through (e)(4).
- <u>f)</u> The owner or operator shall install, operate, and maintain enclosed pipes or other closed-systems to:

BOARD NOTE: U.S. EPA considers a drain system that meets the requirements of 40 CFR 61.346(a)(1) or (b)(1) through (b)(3) to be a "closed-system". The Board intends that this meaning be included in the use of that term for the purposes of this Subpart.

- 1) Transfer all hazardous waste to the surface impoundment from another tank, surface impoundment, or container subject to this Subpart except for those hazardous wastes that meet the conditions specified in Section 724.982(c); and
- 2) Transfer all hazardous waste from the surface impoundment to another tank, surface impoundment, or container subject to this Subpart except for those hazardous wastes that meet the conditions specified in Section 724.982(c).
- g) Each cover opening shall be secured in the closed, sealed position (e.g., a cover by a gasketed lid or cap) at all times that hazardous waste is in the surface impoundment except when it is necessary to use the cover opening to:
 - 1) Add, remove, inspect, or sample the material in the surface impoundment;
 - 2) Inspect, maintain, repair, or replace equipment located underneath the cover;
 - 3) Remove treatment residues from the surface impoundment in accordance with the requirements of 35 Ill. Adm. Code 728.4; or
 - 4) Vent gases or vapors from the surface impoundment to a closed-vent system connected to a control device that is designed and operated in accordance with the requirements of Section 724.987.
- h) One or more safety devices that vent directly to the atmosphere may be installed on the cover, closed-vent system, or control device provided each device meets all of the following conditions:
 - 1) The safety device is not used for planned or routine venting of organic vapors from the surface impoundment or the closed-vent system connected to a control device; and

2) The safety device remains in a closed, sealed position at all times, except when an unplanned event requires that the device open for the purpose of preventing physical damage or permanent deformation of the cover, closed-vent system, or control device in accordance with good engineering and safety practices for handling flammable, combustible, explosive, or other hazardous materials. An example of an unplanned event is a sudden power outage.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.986 Standards: Containers

- a) This Section applies to the owners and operators of containers having design capacities greater than 0.1 m³ (3.5 ft³ or 26.4 gal) subject to this Subpart into which any hazardous waste is placed except for a container in which all hazardous waste entering the container meets the conditions specified in Section 724.982(c).
- b) An owner or operator shall manage hazardous waste in containers using the following procedures:
 - 1) The owner or operator shall place the hazardous waste into one of the following containers, except when a container is used for hazardous waste treatment as required by subsection (b)(2) below:
 - <u>A)</u> A container that is equipped with a cover which operates with no detectable organic emissions when all container openings (e.g., lids, bungs, hatches, and sampling ports) are secured in a closed, sealed position. The owner or operator shall determine that a container operates with no detectable emissions by testing each opening on the container for leaks in accordance with Method 21 in 40 CFR 60, Appendix A, incorporated by reference in 35 Ill. Adm. Code 720.111, the first time any portion of the hazardous waste is placed into the container. If a leak is detected and cannot be repaired immediately, the hazardous waste shall be removed from the container and the container not used to meet the requirements of this subsection until the leak is repaired and the container is retested.
 - B) A container having a design capacity less than or equal to 0.46 m³ (16.2 ft³ or 122 gal) that is equipped with a cover and complies with all applicable Department of Transportation regulations on packaging hazardous waste for transport under 49 CFR 178, incorporated by reference at 35 Ill. Adm. Code 720.111.
 - i) A container that is managed in accordance with the requirements of 49 CFR 178, incorporated by reference at 35 Ill. Adm. Code 720.111, for the purpose of complying with this Subpart, is not subject to any exceptions to the 49 CFR 178 regulations, except as noted in subsection (b)(1)(B)(ii) below.
 - ii) A lab pack that is managed in accordance with the requirements of 49 CFR 178, incorporated by

- reference at 35 Ill. Adm. Code 720.111, for the purpose of complying with this Subpart, may comply with the exceptions for combination packagings specified in 49 CFR 173.12(b), incorporated by reference at 35 Ill. Adm. Code 720.111.
- <u>C)</u> A container that is attached to or forms a part of any truck, trailer, or railcar and that has been demonstrated within the preceding 12 months to be organic vapor tight when all container openings are in a closed, sealed position (e.g., the container hatches or lids are gasketed and latched). For the purpose of meeting the requirements of this subsection, a container is organic vapor tight if the container sustains a pressure change of not more than 0.75 kPa (0.11 psig or 5.6 mm Hg) within 5 minutes after it is pressurized to a minimum of 4.50 kPa (0.65 psig or 33.7 mm Hq). This condition is to be demonstrated using the pressure test specified in Method 27 of 40 CFR 60, Appendix A, and a pressure measurement device which has a precision of ±2.5 mm water and which is capable of measuring above the pressure at which the container is to be tested for vapor tightness.
- 2) An owner or operator treating hazardous waste in a container by either a waste stabilization process, any process that requires the addition of heat to the waste, or any process that produces an exothermic reaction shall meet the following requirements:
 - A) Whenever it is necessary for the container to be open during the treatment process, the container shall be located inside an enclosure that is vented through a closed-vent system to a control device.
 - B) The enclosure shall be a structure that is designed and operated in accordance with the following requirements:
 - i) The enclosure shall be a structure that is designed and operated with sufficient airflow into the structure to capture the organic vapors emitted from the hazardous waste in the container and vent the vapors through the closed-vent system to the control device.
 - ii) The enclosure may have permanent or temporary openings to allow worker access, passage of containers through the enclosure by conveyor or other mechanical means, entry of permanent mechanical or electrical equipment, or to direct airflow into the enclosure. The pressure drop across each opening in the enclosure shall be maintained at a pressure below atmospheric pressure so that whenever an open container is placed inside the enclosure no organic vapors released from the container exit the enclosure through the opening. The owner or operator shall determine that an enclosure achieves this condition by measuring the pressure drop across each opening in the enclosure. If the pressure

within the enclosure is equal to or greater than atmospheric pressure then the enclosure does not meet the requirements of this Section.

- C) The closed-vent system and control device shall be designed and operated in accordance with the requirements of Section 724.987.
- 3) An owner or operator transferring hazardous waste into a container having a design capacity greater than 0.46 m³ (16.2 ft³ or 122 gal) shall meet the following requirements:
 - A) Hazardous waste transfer by pumping shall be performed using a conveyance system that uses a tube (e.g., pipe, hose) to add the waste into the container.
 During transfer of the waste into the container, the cover shall remain in place and all container openings shall be maintained in a closed, sealed position except for those openings through which the tube enters the container and as provided for in subsection (c) below. The tube shall be positioned in a manner so that:
 - i) The tube outlet continuously remains submerged below the waste surface at all times waste is flowing through the tube;
 - ii) The lower bottom edge of the tube outlet is located at a distance no greater than two inside diameters of the tube or 15.25 cm (6.0 in), whichever distance is greater, from the bottom of the container at all times waste is flowing through the tube; or
 - iii) The tube is connected to a permanent port mounted on the bottom of the container so that the lower edge of the port opening inside the container is located at a distance equal to or less than 15.25 cm (6.0 in) from the container bottom.
 - B) Hazardous waste transferred by a means other than pumping shall be performed such that during transfer of the waste into the container, the cover remains in place and all container openings are maintained in a closed, sealed position except for those openings through which the hazardous waste is added and as provided for in subsection (d) below.
- c) Each container opening shall be maintained in a closed, sealed position (e.g., covered by a gasketed lid) at all times that hazardous waste is in the container except when it is necessary to use the opening to:
 - 1) Add, remove, inspect, or sample the material in the container;
 - 2) Inspect, maintain, repair, or replace equipment located inside the container; or
 - 3) Vent gases or vapors from a cover located over or enclosing an open container to a closed-vent system connected to a

control device that is designed and operated in accordance with the requirements of Section 724.987.

- d) One or more safety devices that vent directly to the atmosphere may be used on the container, cover, enclosure, closed-vent system, or control device provided each device meets all of the following conditions:
 - 1) The safety device is not used for planned or routine venting of organic vapors from the container, cover, enclosure, or closed-vent system connected to a control device; and
 - 2) The safety device remains in a closed, sealed position at all times except when an unplanned event requires that the device open for the purpose of preventing physical damage or permanent deformation of the container, cover, enclosure, closed-vent system, or control device in accordance with good engineering and safety practices for handling flammable, combustible, explosive, or other hazardous materials. An example of an unplanned event is a sudden power_outage.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.987 Standards: Closed-vent Systems and Control Devices

- a) This Section applies to each closed-vent system and control device installed and operated by the owner or operator to control air emissions in accordance with standards of this Subpart.
- b) The closed-vent system shall meet the following requirements:
 - 1) The closed-vent system shall route the gases, vapors, and fumes emitted from the hazardous waste in the waste management unit to a control device that meets the requirements specified in subsection (c) below.
 - 2) The closed-vent system shall be designed and operated in accordance with the requirements specified in Section 724.933(k).
 - 3) If the closed-vent system contains one or more bypass devices that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device, the owner or operator shall meet the following requirements:
 - A) For each bypass device, except as provided for in subsection (b)(3)(B) below, the owner or operator shall either:
 - i) Install, calibrate, maintain, and operate a flow indicator at the inlet to the bypass device that indicates at least once every 15 minutes whether gas, vapor, or fume flow is present in the bypass device; or
 - ii) Secure a valve installed at the inlet to the bypass device in the closed position using a car-seal or a lock-and-key type configuration. The owner or operator shall visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in

the closed position.

- B) Low leq drains, high point bleeds, analyzer vents, open-ended valves or lines, and safety devices are not subject to the requirements of subsection (b)(3)(A) above.
- c) The control device shall meet the following requirements:
 - 1) The control device shall be one of the following devices:
 - A) A control device designed and operated to reduce the total organic content of the inlet vapor stream vented to the control device by at least 95 percent by weight;
 - B) An enclosed combustion device designed and operated in accordance with the requirements of Section 724.933(c); or
 - C) A flare designed and operated in accordance with the requirements of Section 724.933(d).
 - 2) The control device shall be operating at all times when gases, vapors, or fumes are vented from the waste management unit through the closed-vent system to the control device.
 - 3) The owner or operator using a carbon adsorption system to comply with subsection (c)(1) above shall operate and maintain the control device in accordance with the following requirements:
 - A) Following the initial startup of the control device, all activated carbon in the control device shall be replaced with fresh carbon on a regular basis in accordance with the requirements of Section 724.933(g) or Section 724.933(h).
 - <u>B)</u> <u>All carbon removed from the control device shall be</u> managed in accordance with the requirements of Section 724.933(m).
 - 4) An owner or operator using a control device other than a thermal vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system to comply with subsection (c)(1) above shall operate and maintain the control device in accordance with the requirements of Section 724.933(j).
 - 5) The owner or operator shall demonstrate that a control device achieves the performance requirements of subsection (c)(1) above, as follows:
 - A) An owner or operator shall demonstrate using either a performance test, as specified in subsection (c)(5)(C) below, or a design analysis, as specified in subsection (c)(5)(D) below, the performance of each control device except for the following:
 - <u>i) A flare;</u>
 - ii) A boiler or process heater with a design heat

input capacity of 44 megawatts or greater;

- <u>iii)</u> A boiler or process heater into which the vent stream is introduced with the primary fuel;
- iv) A boiler or process heater burning hazardous waste for which the owner or operator has been issued a final permit under 35 Ill. Adm. Code 703 and 705 and designs and operates the unit in accordance with the requirements of 35 Ill. Adm. Code 726.Subpart H; or
- v) A boiler or process heater burning hazardous waste for which the owner or operator has certified compliance with the interim status requirements of 35 Ill. Adm. Code 726.Subpart H.
- B) An owner or operator shall demonstrate the performance of each flare in accordance with the requirements specified in Section 724.933(e).
- C) For a performance test conducted to meet the requirements of subsection (c)(5)(A) above, the owner or operator shall use the test methods and procedures specified in Section 724.934(c)(1) through (c)(4).
- D) For a design analysis conducted to meet the requirements of subsection (c)(5)(A) above, the design analysis shall meet the requirements specified in Section 724.935(b)(4)(C).
- E) The owner or operator shall demonstrate that a carbon adsorption system achieves the performance requirements of subsection (c)(1) above based on the total quantity of organics vented to the atmosphere from all carbon adsorption system equipment that is used for organic adsorption, organic desorption or carbon regeneration, organic recovery, and carbon disposal.
- 6) If the owner or operator and the Agency do not agree on a demonstration of control device performance using a design analysis then the disagreement shall be resolved using the results of a performance test performed by the owner or operator in accordance with the requirements of subsection (c)(5)(C) above. The Agency may choose to have an authorized representative observe the performance test.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.988 Inspection and Monitoring Requirements

- a) This Section applies to an owner or operator using air emission controls in accordance with the requirements of Sections 724.984 through 724.987.
- b) Each cover used in accordance with requirements of Section 724.984 through 724.986 shall be visually inspected and monitored for detectable organic emissions by the owner or operator using the procedure specified in 35 Ill. Adm. Code 725.989(f)(1) through (f)(7), except as follows:

- 1) An owner or operator is exempted from performing the cover inspection and monitoring requirements specified in 35 Ill. Adm. Code 725.989(f)(1) through (f)(7) for the following tank covers:
 - A) A tank internal floating roof that is inspected and monitored in accordance with the requirements of Section 724.991; or
 - B) A tank external floating roof that is inspected and monitored in accordance with the requirements of Section 724.991.
- 2) If a tank is buried partially or entirely underground, an owner or operator is required to perform the cover inspection and monitoring requirements specified in 35 Ill. Adm. Code 725.989(f)(1) through (f)(7) only for those portions of the tank cover and those connections to the tank cover or tank body (e.g., fill ports, access hatches, gauge wells, etc.) that extend to or above the ground surface and can be opened to the atmosphere.
- 3) An owner or operator is exempted from performing the cover inspection and monitoring requirements specified in 35 Ill. Adm. Code 725.989(f)(1) through (f)(7) for a container that meets all requirements specified in either Section 724.986(b)(1)(B) or (b)(1)(C).
- 4) An owner or operator is exempted from performing the cover inspection and monitoring requirements specified in 35 Ill. Adm. Code 725.989(f)(1) through (f)(7) for an enclosure used to control air emissions from containers in accordance with the requirements of Section 724.986(b)(2).
- c) Each closed-vent system used in accordance with the requirements of Section 724.987 shall be inspected and monitored by the owner or operator in accordance with the procedure specified in Section 724.933(k).
- d) Each control device used in accordance with the requirements of Section 724.987 shall be inspected and monitored by the owner or operator in accordance with the procedures specified in Sections 724.933(f) and 724.933(i).
- e) The owner or operator shall develop and implement a written plan and schedule to perform all inspection and monitoring requirements of this section. The owner or operator shall incorporate this plan and schedule into the facility inspection plan required under Section 724.115.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.989 Recordkeeping Requirements

- a) Each owner or operator of a facility subject to requirements in this Subpart shall record and maintain the following information as applicable:
 - 1) Documentation for each cover installed on a tank in accordance with the requirements of Section 724.984(b)(2) or (b)(3) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor

describing the cover design, and certification by the owner or operator that the cover meets the applicable design specifications as listed in 35 Ill. Adm. Code 725.991(c).

- 2) Documentation for each floating membrane cover installed on a surface impoundment in accordance with the requirements of Section 724.985(c) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by the owner or operator that the cover meets the specifications listed in 35 Ill. Adm. Code 725.986(e).
- 3) Documentation for each enclosure used to control air emissions from containers in accordance with the requirements of Section 724.986(b)(2)(A) that includes information prepared by the owner or operator or provided by the manufacturer or vendor describing the enclosure design, and certification by the owner or operator that the enclosure meets the specifications listed in Section 724.986(b)(2)(B).
- 4) Documentation for each closed-vent system and control device installed in accordance with the requirements of Section 724.987 that includes:
 - A) Certification that is signed and dated by the owner or operator stating that the control device is designed to operate at the performance level documented by a design analysis as specified in subsection (a)(4)(B) below or by performance tests as specified in subsection (a)(4)(C) below when the tank, surface impoundment, or container is or would be operating at capacity or the highest level reasonably expected to occur.
 - B) If a design analysis is used, then design documentation as specified in Section 724.935(b)(4). The documentation shall include information prepared by the owner or operator or provided by the control device manufacturer or vendor that describes the control device design in accordance with Section 724.935(b)(4)(C) and certification by the owner or operator that the control equipment meets the applicable specifications.
 - C) If performance tests are used, then a performance test plan as specified in Section 724.935(b)(3) and all test results.
 - D) Information as required by Section 724.935(c)(1) and (c)(2).
- 5) Records for all Method 27 tests performed by the owner or operator for each container used to meet the requirements of Section 724.986(b)(1)(C).
- 6) Records for all visual inspections conducted in accordance with the requirements of Section 724.988.
- 7) Records for all monitoring for detectable organic emissions conducted in accordance with the requirements of Section 724.988.

- 8) Records of the date of each attempt to repair a leak, repair methods applied, and the date of successful repair.
- 9) Records for all continuous monitoring conducted in accordance with the requirements of Section 724.988.
- 10) Records of the management of carbon removed from a carbon adsorption system conducted in accordance with Section 724.987(c)(3)(B).
- 11) Records for all inspections of each cover installed on a tank in accordance with the requirements of Section 724.984(b)(2) or (b)(3) that includes information as listed in 35 Ill. Adm. Code 725.991(c).
- b) An owner or operator electing to use air emission controls for a tank in accordance with the conditions specified in Section 724.984(c) shall record the following information:
 - 1) Date and time each waste sample is collected for direct measurement of maximum organic vapor pressure in accordance with Section 724.983(c).
 - 2) Results of each determination of the maximum organic vapor pressure of the waste in a tank performed in accordance with Section 724.983(c).
 - 3) Records specifying the tank dimensions and design capacity.
- <u>c)</u> An owner or operator electing to use air emission controls for a tank in accordance with the requirements of Section 724.991 shall record the information required by Section 724.991(c).
- d) An owner or operator electing not to use air emission controls for a particular tank, surface impoundment, or container subject to this Subpart in accordance with the conditions specified in Section 724.982(c) shall record the information used by the owner or operator for each waste determination (e.g., test results, measurements, calculations, and other documentation) in the facility operating log. If analysis results for waste samples are used for the waste determination, then the owner or operator shall record the date, time, and location that each waste sample is collected in accordance with applicable requirements of Section 724.983.
- e) An owner or operator electing to comply with requirements in accordance with Section 724.982(c)(2)(E) or Section 724.982(c)(2)(F) shall record the identification number for the incinerator, boiler, or industrial furnace in which the hazardous waste is treated.
- f) An owner or operator designating a cover as unsafe to inspect and monitor pursuant to 35 Ill. Adm. Code 725.989(f)(5) or difficult to inspect and monitor pursuant to 35 Ill. Adm. Code 725.989(f)(6) shall record in a log that is kept in the facility operating record the following information:
 - 1) A list of identification numbers for tanks with covers that are designated as unsafe to inspect and monitor in accordance with the requirements of 35 Ill. Adm. Code 725.989(f)(5), an explanation for each cover stating why the cover is unsafe to inspect and monitor, and the plan and

schedule for inspecting and monitoring each cover.

- 2) A list of identification numbers for tanks with covers that are designated as difficult to inspect and monitor in accordance with the requirements of 35 Ill. Adm. Code 725.989(f)(6), an explanation for each cover stating why the cover is difficult to inspect and monitor, and the plan and schedule for inspecting and monitoring each cover.
- <u>as required by subsections (a) through (f) above, except</u> <u>as required in subsections (a)(1) through (a)(4), shall be</u> <u>maintained in the operating record for a minimum of 3 years. All</u> <u>records required by subsections (a)(1) through (a)(4) above shall</u> <u>be maintained in the operating record until the air emission</u> <u>control equipment is replaced or otherwise no longer in service.</u>
- h) The owner or operator of a facility that is subject to this Subpart and to the control device standards in 40 CFR 60, Subpart VV or 40 CFR 61, Subpart V, incorporated by reference in 35 Ill. Adm. Code 720.111, may elect to demonstrate compliance with the applicable Sections of this Subpart by documentation either pursuant to this Subpart, or pursuant to the provisions of 40 CFR 60, Subpart VV or 40 CFR 61, Subpart V, to the extent that the documentation required by 40 CFR 60 or 61 duplicates the documentation required by this Section.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.990 Reporting Requirements

- Each owner or operator managing hazardous waste in a tank, surface <u>a)</u> impoundment, or container exempted from using air emission controls under the provisions of Section 724,982(c) shall report to the Agency each occurrence when hazardous waste is placed in the waste management unit in noncompliance with the conditions specified in Section 724.982(c)(1) or (c)(2), as applicable. Examples of such occurrences include placing in the waste management unit a hazardous waste having an average VO concentration equal to or greater than 100 ppmw at the point of waste origination or placing in the waste management unit a treated hazardous waste that fails to meet the applicable conditions specified in Section 724.982(c)(2)(A) through (c)(2)(E). The owner or operator shall submit a written report within 15 calendar days of the time that the owner or operator becomes aware of the occurrence. The written report shall contain the U.S. EPA identification number, the facility name and address, a description of the noncompliance event and the cause, the dates of the noncompliance, and the actions taken to correct the noncompliance and prevent reoccurrence of the noncompliance. The report shall be signed and dated by an authorized representative of the owner or operator.
- b) Each owner or operator using air emission controls on a tank in accordance with the requirements Section 724.984(c) shall report to the Agency each occurrence when hazardous waste is managed in the tank in noncompliance with the conditions specified in Section 724.984(c)(1) through (c)(4). The owner or operator shall submit a written report within 15 calendar days of the time that the owner or operator becomes aware of the occurrence. The written report shall contain the U.S. EPA identification number, the facility name and address, a description of the noncompliance event and the cause, the dates of the noncompliance, and the

actions taken to correct the noncompliance and prevent reoccurrence of the noncompliance. The report shall be signed and dated by an authorized representative of the owner or operator.

- <u>c)</u> Each owner or operator using a control device in accordance with the requirements of Section 724.987 shall submit a semiannual written report to the Agency excepted as provided for in subsection (d) below. The report shall describe each occurrence during the previous 6-month period when a control device is operated continuously for 24 hours or longer in noncompliance with the applicable operating values defined in Section 724.935(c)(4) or when a flare is operated with visible emissions as defined in Section 724.933(d). The written report shall include the U. S. EPA identification number, the facility name and address, and an explanation why the control device could not be returned to compliance within 24 hours, and actions taken to correct the noncompliance. The report shall be signed and dated by an authorized representative of the owner or operator.
- d) A report to the Agency in accordance with the requirements of subsection (c) above is not required for a 6-month period during which all control devices subject to this Subpart are operated by the owner or operator so that during no period of 24 hours or longer did a control device operate continuously in noncompliance with the applicable operating values defined in Section 724.935(c)(4) or a flare operate with visible emissions, as defined in Section 724.933(d).

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 724.991 Alternative Control Requirements for Tanks

- a) This Section applies to owners and operators of tanks that elect to comply with Section 724.984(b)(2) or Section 724.984(b)(3).
 - 1) The owner or operator that elects to comply with Section 724.984(b)(2) shall design, install, operate, and maintain a fixed roof and internal floating roof that meet the requirements specified in 35 Ill. Adm. Code 725.991(a)(1)(A) through (a)(1)(I).
 - 2) The owner or operator that elects to comply with Section 724.984(b)(3) shall design, install, operate, and maintain an external floating roof that meets the requirements specified in 35 Ill. Adm. Code 725.991(a)(2)(A) through (a)(2)(C).
- b) The owner or operator shall inspect and monitor the control equipment in accordance with the following requirements:
 - 1) For a tank equipped with a fixed roof and internal floating roof in accordance with the requirements of subsection (a)(1) above, the owner or operator shall perform the inspection and monitoring requirements specified in 35 Ill. Adm. Code 725.991(b)(1).
 - 2) For a tank equipped with an external floating roof in accordance with the requirements of subsection (a)(2) above, the owner or operator shall perform the inspection and monitoring requirements specified in 35 Ill. Adm. Code 725.991(b)(2).

- <u>c)</u> The owner or operator shall record the following information in the operating record in accordance with the requirements of Section 724.989(a)(1) and (a)(11):
 - 1) For a tank equipped with a fixed roof and internal floating roof in accordance with the requirements of subsection (a)(1) above, the owner or operator shall record the information listed in 35 Ill. Adm. Code 725.991(c)(1).
 - 2) For a tank equipped with an external floating roof in accordance with the requirements of subsection (a)(1) above, the owner or operator shall record the information listed in 35 Ill. Adm. Code 725.991(c)(2).

(Source: Added at 19 Ill. Reg. _____, effective _____)

SUBPART DD: CONTAINMENT BUILDINGS

Section 724.1102 Closure and pPost_closure eCare

- At closure of a containment building, the owner or operator must remove or decontaminate all waste residues, contaminated containment system components (liners, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and manage them as hazardous waste unless 35 Ill. Adm. Code 721.103(ee) applies. The closure plan, closure activities, cost estimates for closure, and financial responsibility for containment buildings must meet all of the requirements specified in 739.Subparts G and H.
- b) If, after removing or decontaminating all residues and making all reasonable efforts to effect removal or decontamination of contaminated components, subsoils, structures, and equipment as required in subsection (a) above, the owner or operator finds that not all contaminated subsoils can be practicably removed or decontaminated, he must close the facility and perform post-closure care in accordance with the closure and post-closure requirements that apply to landfills (35 Ill. Adm. Code 724.310). In addition, for the purposes of closure, post-closure, and financial responsibility, such a containment building is then considered to be a landfill, and the owner or operator must meet all the requirements for landfills specified in 739.Subparts G and H.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 725 INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

SUBPART A: GENERAL PROVISIONS

725.101	Purpose,	Scope and Applicability
725.104	Imminent	Hazard Action

Spation

SUBPART B: GENERAL FACILITY STANDARDS

	SUBPART B: GENERAL FACILITY STANDARDS
Section	
725.110	Applicability
725.111	USEPA Identification Number
725.112	Required Notices
725.113	General Waste Analysis
725.114	Security
725.115	General Inspection Requirements
725.116	Personnel Training
725.117	General Requirements for Ignitable, Reactive, or Incompatible Wastes
725.118	Location Standards
725.119	Construction Quality Assurance Program
	SUBPART C: PREPAREDNESS AND PREVENTION
Section	DUDIARI C. PREFAREDUEDO AND PREVENTION
725.130	Applicability
725.131	Maintenance and Operation of Facility
725.132	Required Equipment
725.133	Testing and Maintenance of Equipment
725.134	Access to Communications or Alarm System
725.135	Required Aisle Space
725.137	Arrangements with Local Authorities
	SUBPART D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES
Section	
725.150	Applicability
725.151	Purpose and Implementation of Contingency Plan
725.152	Content of Contingency Plan
725.153	Copies of Contingency Plan
725.154	Amendment of Contingency Plan
725.155	Emergency Coordinator
725.156	Emergency Procedures
	SUBPART E: MANIFEST SYSTEM, RECORDKEEPING AND REPORTING
Section	
725.170	Applicability
725.171	Use of Manifest System
725.172	Manifest Discrepancies
725.173	Operating Record
725.174	Availability, Retention and Disposition of Records
725.175	Annual Report
725.176 725.177	Unmanifested Waste Report Additional Reports
/25.1//	Additional Reports
6	SUBPART F: GROUNDWATER MONITORING
Section	
725.190	Applicability
725.191 725.192	Groundwater Monitoring System Sampling and Analysis
725.192	Preparation, Evaluation and Response
725.193	Recordkeeping and Reporting
1201231	
Soation	SUBPART G: CLOSURE AND POST-CLOSURE
Section 725.210	Applicability
725.210	Closure Performance Standard
725.212	Closure Plan; Amendment of Plan
725.212	Closure; Time Allowed for Closure
725.214	Disposal or Decontamination of Equipment, Structures and Soils
725.215	Certification of Closure
725.216	Survey Plat
	-

- 725.217 Post-closure Care and Use of Property
- 725.218 Post-closure Plan; Amendment of Plan 725.219 Post-Closure Notices
- 725.220 Certification of Completion of Post-Closure Care

SUBPART H: FINANCIAL REQUIREMENTS

- Section
- 725.240 Applicability
- 725.241 Definitions of Terms as Used in this Subpart
- 725.242 Cost Estimate for Closure
- 725.243 Financial Assurance for Closure
- 725.244 Cost Estimate for Post-closure Care
- 725.245 Financial Assurance for Post-closure Monitoring and Maintenance
- 725.246 Use of a Mechanism for Financial Assurance of Both Closure and Post-closure Care
- 725.247 Liability Requirements
- 725.248 Incapacity of Owners or Operators, Guarantors or Financial Institutions
- 725.251 Promulgation of Forms (Repealed)

SUBPART I: USE AND MANAGEMENT OF CONTAINERS

- Section 725.270 Applicability
- 725.271 Condition of Containers
- 725.272 Compatibility of Waste with Container
- 725.273 Management of Containers
- 725.274 Inspections
- 725.276 Special Requirements for Ignitable or Reactive Waste
- 725.277 Special Requirements for Incompatible Wastes
- 725.278 Air Emission Standards

SUBPART J: TANK SYSTEMS

725.290 Applicability

Section

Section

- 725.291 Assessment of Existing Tank System's Integrity 725.292 Design and Installation of New Tank Systems or Components
- 725.293 Containment and Detection of Releases
- 725.294 General Operating Requirements
- 725.295 Inspections
- 725.296 Response to leaks or spills and disposition of Tank Systems
- 725.297 Closure and Post-Closure Care
- 725.298 Special Requirements for Ignitable or Reactive Waste
- 725.299 Special Requirements for Incompatible Wastes
- 725.300 Waste Analysis and Trial Tests
- 725.301 Generators of 100 to 1000 kg/mo-
- 725.302 Air Emission Standards

SUBPART K: SURFACE IMPOUNDMENTS

725.320	Applicability
725.321	Design and Operating Requirements
725.322	Action Leakage Rate
725.323	Response Actions
725.324	Containment System
725.325	Waste Analysis and Trial Tests
725.326	Monitoring and Inspections
725.328	Closure and Post-Closure Care
725.329	Special Requirements for Ignitable or Reactive Waste
725.330	Special Requirements for Incompatible Wastes
725.331	Air Emission Standards

SUBPART L: WASTE PILES

Section	
725.350	Applicability
725.351	Protection from Wind
725.352	Waste Analysis
	Containment
725.353	
725.354	Design and Operating Requirements
725.355	Action Leakage Rates
725.356	Special Requirements for Ignitable or Reactive Waste
725.357	Special Requirements for Incompatible Wastes
725.358	Closure and Post-Closure Care
725.359	Response Actions
725.360	Monitoring and Inspection
	SUBPART M: LAND TREATMENT
Section	
725.370	Applicability
725.372	General Operating Requirements
725.373	Waste Analysis
725.376	Food Chain Crops
725.378	Unsaturated Zone (Zone of Aeration) Monitoring
725.379	Recordkeeping
725.380	Closure and Post-closure
725.380	Special Requirements for Ignitable or Reactive Waste
	Special Requirements for Incompatible Wastes
725.382	Special Requirements for incompatible wastes
	AVERARE N. LANDRILLS
Carb Law	SUBPART N: LANDFILLS
Section	
725.400	Applicability
725.401	Design Requirements
725.402	Action Leakage Rate
725.403	Response Actions
725.404	Monitoring and Inspection
725.409	Surveying and Recordkeeping
725.410	Closure and Post-Closure
725.412	Special Requirements for Ignitable or Reactive Waste
725.413	Special Requirements for Incompatible Wastes
725.414	Special Requirements for Liquid Wastes
725.415	Special Requirements for Containers
725.416	Disposal of Small Containers of Hazardous Waste in Overpacked
	Drums (Lab Packs)
	SUBPART O: INCINERATORS
Section	
725.440	Applicability
725.441	Waste Analysis
725.445	General Operating Requirements
725.447	Monitoring and Inspection
725.451	Closure
725.451	
120.452	Interim Status Incinerators Burning Particular Hazardous Wastes
a	SUBPART P: THERMAL TREATMENT
Section	
725.470	Other Thermal Treatment
725.473	General Operating Requirements
725.475	Waste Analysis
725.477	Monitoring and Inspections
725.481	Closure
725.482	Open Burning; Waste Explosives
725.483	Interim Status Thermal Treatment Devices Burning Particular
	Hazardous Waste
	SUBPART Q: CHEMICAL, PHYSICAL AND BIOLOGICAL TREATMENT

Section Applicability 725.500 725.501 General Operating Requirements 725.502 Waste Analysis and Trial Tests 725.503 Inspections 725.504 Closure 725.505 Special Requirements for Ignitable or Reactive Waste 725.506 Special Requirements for Incompatible Wastes SUBPART R: UNDERGROUND INJECTION Section 725.530 Applicability SUBPART W: DRIP PADS Section 725.540 Applicability 725.541 Assessment of existing drip pad integrity 725.542 Design and installation of new drip pads 725.543 Design and operating requirements 725.544 Inspections Closure 725.545 SUBPART AA: AIR EMISSION STANDARDS FOR PROCESS VENTS Section 725.930 Applicability 725.931 Definitions 725.932 Standards: Process Vents 725.933 Standards: Closed-vent Systems and Control Devices Test methods and procedures 725.934 725.935 Recordkeeping Requirements SUBPART BB: AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS Section 725.950 Applicability Definitions 725.951 725.952 Standards: Pumps in Light Liquid Service Standards: Compressors 725.953 Standards: Pressure Relief Devices in Gas/Vapor Service 725.954 Standards: Sampling Connecting Systems 725.955 725.956 Standards: Open-ended Valves or Lines 725.957 Standards: Valves in Gas/Vapor or Light Liquid Service Standards: Pumps, Valves, Pressure Relief Devices, Flanges and 725.958 Other Connectors 725.959 Standards: Delay of Repair 725.960 Standards: Closed-vent Systems and Control Devices 725.961 Percent Leakage Alternative for Valves Skip Period Alternative for Valves 725.962 725.963 Test Methods and Procedures Recordkeeping Requirements 725.964 SUBPART CC: AIR EMISSION STANDARDS FOR TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS Section <u>Applicability</u> <u>725.980</u> 725.981 Definitions Schedule for Implementation of Air Emission Standards 725.982 725.983 Standards: General 725.984 Waste Determination Procedures 725.985 Standards: Tanks Standards: Surface Impoundments 725.986 725.987 Standards: Containers Standards: Closed-vent Systems and Control Devices 725.988

125

<u>725.989</u>	Inspection and Monitoring Requirements	
725.990	Recordkeeping Requirements	
725.991	Alternative Tank Emission Control Requirements	
	SUBPART DD: CONTAINMENT BUILDINGS	
Section		
725.1100	Applicability	
725.1101	Design and operating standards	
725.1102	Closure and pPost eClosure-eCare	
725.Appendix A Recordkeeping Instructions		

Recordreeping instructions
EPA Report Form and Instructions (Repealed)
EPA Interim Primary Drinking Water Standards
Tests for Significance
Examples of Potentially Incompatible Waste

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106May 17, 1982; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code 700.106May 17, 1982; amended in R82-18, 51 PCB 831, at 7 Ill. Reg. 2518, effective February 22, 1983; amended in R82-19, 53 PCB 131, at 7 Ill. Reg. 14034, effective October 12, 1983; amended in R84-9, at 9 Ill. Reg. 11869, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 1085, effective January 2, 1986; amended in R86-1 at 10 Ill. Reg. 14069, effective August 12, 1986; amended in R86-28 at 11 Ill. Reg. 6044, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13489, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19338, effective November 10, 1987; amended in R87-26 at 12 Ill. Reg. 2485, effective January 15, 1988; amended in R87-39 at 12 Ill. Reg. 13027, effective July 29, 1988; amended in R88-16 at 13 Ill. Reg. 437, effective December 28, 1988; amended in R89-1 at 13 Ill. Reg. 18354, effective November 13, 1989; amended in R90-2 at 14 Ill. Reg. 14447, effective August 22, 1990; amended in R90-10 at 14 Ill. Reg. 16498, effective September 25, 1990; amended in R90-11 at 15 Ill. Reg. 9398, effective June 17, 1991; amended in R91-1 at 15 Ill. Reg. 14534, effective October 1, 1991; amended in R91-13 at 16 Ill. Reg. 9578, effective June 9, 1992; amended in R92-1 at 16 Ill. Reg. 17672, effective November 6, 1992; amended in R92-10 at 17 Ill. Reg. 5681, effective March 26, 1993; amended in R93-4 at 17 Ill. Reg. 20620, effective November 22, 1993; amended in R93-16 at 18 Ill. Reg. 6771, effective April 26, 1994; amended in R94-7 at 18 Ill. Reg. 12190, effective July 29, 1994; amended in R94-17 at 18 Ill. Reg. 17548, effective November 23, 1994; amended in R95-6 at 19 Ill. Reg. _____, effective

SUBPART A: GENERAL PROVISIONS

Section 725.101 Purpose, Scope and Applicability

- a) The purpose of this Part is to establish minimum standards whichthat define the acceptable management of hazardous waste during the period of interim status and until certification of final closure or, if the facility is subject to post-closure requirements, until post-closure responsibilities are fulfilled.
- b) Except as provided in Section 725.980(b), tThe standards in this Part and of 35 Ill. Adm. Code 724.652 and 724.653 apply to owners and operators of facilities which that treat, store, or dispose of hazardous waste who that have fully complied with the requirements for interim status under Section 3005(e) of the Resource Conservation and Recovery Act (RCRA) (42 U.S.C. 6901 et seq.) and

35 Ill. Adm. Code 703, until either a permit is issued under Section 3005 of the Resource Conservation and Recovery Act or Section 21(f) of the Environmental Protection Act, or until applicable closure and post-closure responsibilities under this Part are fulfilled, and to those owners and operators of facilities in existence on November 19, 1980, whothat have failed to provide timely notification as required by Section 3010(a) of RCRA₇ or that have failed to file Part A of the Permit Application, as required by 40 CFR 270.10(e) and (g) or 35 Ill. Adm. Code 703.150 and 703.152. These standards apply to all treatment, storage, or disposal of hazardous waste at these facilities after November 19, 1980, except as specifically provided otherwise in this Part or 35 Ill. Adm. Code 721;

BOARD NOTE: As stated in Section 3005(a) of RCRA, after the effective date of regulations under that Section₇ (i.e., 40 CFR 270 and 124_{7}) the treatment, storage, or disposal of hazardous waste is prohibited except in accordance with a permit. Section 3005(e) of RCRA provides for the continued operation of an existing facility which that meets certain conditions until final administrative disposition of the owner's and operator's permit application is made. 35 Ill. Adm. Code 703.140 et seq. provide that a permit is deemed issued under Section 21(f)(1) of the Environmental Protection Act under conditions similar to federal interim status.

- c) The requirements of this Part do not apply to:
 - A person disposing of hazardous waste by means of ocean disposal subject to a permit issued under the Marine Protection, Research and Sanctuaries Act (16 U.S.C. 1431-1434; 33 U.S.C. 1401);

BOARD NOTE: This Part applies to the treatment or storage of hazardous waste before it is loaded into an ocean vessel for incineration or disposal at sea, as provided in subsection (b) above.

3) The owner or operator of a POTW (publicly owned treatment works) which that treats, stores or disposes of hazardous waste;

BOARD NOTE: The owner or operator of a facility under subsections (c)(1) through (c)(3) is subject to the requirements of 35 Ill. Adm. Code 724 to the extent they are included in a permit by rule granted to such a person under 35 Ill. Adm. Code 702 and 703 or are required by 35 Ill. Adm. Code 704.Subpart F.

- 5) The owner or operator of a facility permitted, licensed, or registered by Illinois to manage municipal or industrial solid waste, if the only hazardous waste the facility treats, stores, or disposes of is excluded from regulation under this Part by 35 Ill. Adm. Code 721.105;
- 6) The owner or operator of a facility managing recyclable materials described in 35 Ill. Adm. Code $721.106(a)(2)\tau$ through (a)(4), (except to the extent that requirements of this Part are referred to in 35 Ill. Adm. Code 726. Subparts C, F, G, or H or 35 Ill. Adm. Code 739;
- 7) A generator accumulating waste on-site in compliance with 35

Ill. Adm. Code 722.134, except to the extent the requirements are included in 35 Ill. Adm. Code 722.134;

- A farmer disposing of waste pesticides from the farmer's own use in compliance with 35 Ill. Adm. Code 722.170;
- 9) The owner or operator of a totally enclosed treatment facility, as defined in 35 Ill. Adm. Code 720.110;
- 10) The owner or operator of an elementary neutralization unit or a wastewater treatment unit as defined in 35 Ill. Adm. Code 720.110, provided that if the owner or operator is diluting hazardous ignitable (D001) wastes (other than the D001 High TOC Subcategory defined in 35 Ill. Adm. Code 728.Table \overline{PT}) or corrosive (D002) waster in order to remove the characteristic before land disposal, the owner or operator must comply with the requirements set out in Section 725.117(b);
- 11) Immediate response:
 - A) Except as provided in subsection $(c)(11)(B)_{\tau}$ below, a person engaged in treatment or containment activities during immediate response to any of the following situations:
 - i) A discharge of a hazardous waste;
 - ii) An imminent and substantial threat of a discharge of a hazardous waste;
 - iii) A discharge of a material which, when discharged, that becomes a hazardous waste when discharged.
 - B) An owner or operator of a facility otherwise regulated by this Part must comply with all applicable requirements of <u>725</u>.Subparts C and D.
 - C) Any person whothat is covered by subsection (c)(11)(A)_{τ} above and whothat continues or initiates hazardous waste treatment or containment activities after the immediate response is over is subject to all applicable requirements of this Part and 35 Ill. Adm. Code 702, 703_L and 705 for those activities.
- 12) A transporter storing manifested shipments of hazardous waste in containers meeting the requirements of 35 Ill. Adm. Code 722.130 at a transfer facility for a period of ten days or less.
- 13) The addition of absorbent material to waste in a container (as defined in 35 Ill. Adm. Code 720.110)₇ or the addition of waste to the absorbent material in a container, provided that these actions occur at the time <u>that the</u> waste is first placed in the containers₇ and Sections 725.117(b), 725.271₁ and 725.272 are complied with.
- d) The following hazardous wastes must not be managed at facilities subject to regulation under this Part: hazardous waste numbers F020, F021, F022, F023, F026, or F027 unless:

- 2) The waste is stored in tanks or containers;
- 3) The waste is stored or treated in waste piles that meet the requirements of 35 Ill. Adm. Code 724.350(c) as well as and all other applicable requirements of <u>725.Subpart L;</u>
- 4) The waste is burned in incinerators that are certified pursuant to the standards and procedures in Section 725.452; or
- 5) The waste is burned in facilities that thermally treat the waste in a device other than an incinerator and that are certified pursuant to the standards and procedures in Section 725.483.
- e) This Part applies to owners and operators of facilities whichthat treat, store, or dispose of hazardous wastes referred to in 35 Ill. Adm. Code 728, and the 35 Ill. Adm. Code 728 standards are considered material conditions or requirements of the interim status standards of this Part.
- f) 35 Ill. Adm. Code 700 contains rules concerning application of other Board regulations.Other bodies of regulations may apply a person, facility, or activity, such as 35 Ill. Adm. Code 809 (special waste hauling), 35 Ill. Adm. Code 807 or 810 through 817 (solid waste landfills), 35 Ill. Adm. Code 848 or 849 (used and scrap tires), or 35 Ill. Adm. Code 1420 through 1422 (potenyially infectious medical waste), depending on the provisions of those other regulations.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

SUBPART B: GENERAL FACILITY STANDARDS

Section 725.113 General Waste Analysis

- a) Waste analysis:
 - 1) Before an owner or operator treats, stores, or disposes of any hazardous wastes, or non-hazardous wastes if applicable under Section 725.213(d), the owner or operator shall obtain a detailed chemical and physical analysis of a representative sample of the wastes. At a minimum, the analysis must contain all the information whichthat must be known to treat, store, or dispose of the waste in accordance with this Part and 35 Ill. Adm. Code 728.
 - 2) The analysis may include data developed under 35 Ill. Adm. Code 721 and existing published or documented data on the hazardous waste or on waste generated from similar processes.

BOARD NOTE: For example, the facility's record of analyses performed on the waste before the effective date of these regulations or studies conducted on hazardous waste generated from processes similar to that which generated the waste to be managed at the facility may be included in the data base required to comply with subsection (a)(1) τ above, except as otherwise specified in 35 Ill. Adm. Code 728.107(b) and (c). The owner or operator of an off-site facility may arrange for the generator of the hazardous waste to supply part or all of the information required by subsection (a)(1) τ above. If the generator does not supply the information and the owner or operator chooses to accept a hazardous waste, the owner or operator is responsible for obtaining the information required to comply with this Section.

- 3) The analysis must be repeated as necessary to ensure that it is accurate and up to date. At a minimum, the analysis must be repeated:
 - A) When the owner or operator is notified, or has reason to believe, that the process or operation generating the hazardous waste, or non-hazardous waste if applicable under Section 725.213(d), has changed; and
 - B) For off-site facilities, when the results of the inspection required in subsection $(a)(4)_T$ below_T indicate that the hazardous waste received at the facility does not match the waste designated on the accompanying manifest or shipping paper.
- 4) The owner or operator of an off-site facility shall inspect and, if necessary, analyze each hazardous waste movement received at the facility to determine whether it matches the identity of the waste specified on the accompanying manifest or shipping paper.
- b) The owner or operator shall develop and follow a written waste analysis plan which that describes the procedures which that the owner or operator will carry out to comply with subsection (a)₇ above. The owner or operator shall keep this plan at the facility. At a minimum, the plan must specify:
 - The parameters for which each hazardous waste, or nonhazardous waste if applicable under Section 725.213(d), will be analyzed and the rationale for the selection of these parameters (i.e., how analysis for these parameters will provide sufficient information on the waste's properties to comply with subsection (a)₇ above.
 - 2) The test methods which that will be used to test for these parameters.
 - 3) The sampling method whichthat will be used to obtain a representative sample of the waste to be analyzed. A representative sample may be obtained using either:
 - A) One of the sampling methods described in 35 Ill. Adm. Code 721.Appendix A_L or
 - B) An equivalent sampling method.

BOARD NOTE: See 35 Ill. Adm. Code 720.120(c) for related discussion.

4) The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up-to-date.

- 5) For off-site facilities, the waste analyses that hazardous waste generators have agreed to supply.
- 6) Where applicable, the methods whichthat will be used to meet the additional waste analysis requirements for specific waste management methods, as specified in Sections 725.300, 725.325, 725.352, 725.373, 725.414, 725.441, 725.475, 725.502, 725.934(d), and 725.963(d), and 725.984, and 35 Ill. Adm. Code 728.107. And r
- 7) For surface impoundments exempted from land disposal restrictions under 35 Ill. Adm. Code 728.104(a), the procedures and schedules for:
 - A) The sampling of impoundment contents;
 - B) The analysis of test data; and τ
 - C) The annual removal of residues which that are not delisted under 35 Ill. Adm. Code 720.122 or which that exhibit a characteristic of hazardous waster and either:
 - i) Do not meet the applicable treatment standards of 35 Ill. Adm. Code 728.Subpart D+_ or
 - ii) Where no treatment standards have been established: Such residues are prohibited from land disposal under 35 Ill. Adm. Code 728.132 or 728.139; or such residues are prohibited from land disposal under 35 Ill. Adm. Code 728.133(f).
- 8) For owners and operators seeking an exemption to the air emission standards of 724.Subpart CC of this part in accordance with Section 725.983:
 - A) The procedures and schedules for waste sampling and analysis, and the analysis of test data to verify the exemption.
 - B) Each generator's notice and certification of the volatile organic concentration in the waste if the waste is received from offsite.
- c) For off-site facilities, the waste analysis plan required in subsection (b) τ above τ must also specify the procedures which that will be used to inspect and, if necessary, analyze each movement of hazardous waste received at the facility to ensure that it matches the identity of the waste designated on the accompanying manifest or shipping paper. At a minimum, the plan must describe:
 - The procedures which that will be used to determine the identity of each movement of waste managed at the facility; and
 - 2) The sampling method whichthat will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling.

3) The procedures that the owner or operator of an off-site landfill receiving containerized hazardous waste will use to determine whether a hazardous waste generator or treater has added a biodegradable sorbent to the waste in the container.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 725.114 Security

- a) The owner or operator must prevent the unknowing entry and minimize the possibility for the unauthorized entry of persons or livestock onto the active portion of his facility, unless:
 - Physical contact with the waste, structures, or equipment of the active portion of the facility will not injure unknowing or unauthorized persons or livestock which that may enter the active portion of athe facility; and
 - 2) Disturbance of the waste or equipment₇ by the unknowing or unauthorized entry of persons or livestock onto the active portion of a facility will not cause a violation of the requirements of this pPart.
- b) Unless exempt under paragraphesubsections (a)(1) and (a)(2) of this sectionabove, a facility must have:
 - A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which that continuously monitors and controls entry into the active portion of the facility; or-2)
 - 2) Controlled access, including the following minimum elements:
 - A) An artificial or natural barrier (e.g., a fence in good repair or a fence combined with a $cliff)_{\tau}$ which that completely surrounds the active portion of the facility; and
 - B) A means to control entry at all times through the gates or other entrances to the active portion of the facility (e.g., an attendant, television monitors, locked entrance, or controlled roadway access to the facility).

BOARD NOTE: The requirements of paragraphsubsection (b) of this sectionabove are satisfied if the facility or plant within which the active portion is located itself has a surveillance system or a barrier and a means to control entry which that complies with the requirements of paragraphsubsection (b)(1) or (b)(2) of this section.

c) Unless exempt under paragraphssubsection (a)(1) andor (a)(2) of this sectionabove, a sign with the legend, "Danger--Unauthorized Personnel Keep Out," must be posted at each entrance to the active portion of a facility and at other locations, in sufficient numbers to be seen from any approach to this active portion. The sign must be legible from a distance of at least 25 feet. Existing signs with a legend other than "Danger--Unauthorized Personnel Keep Out" may be used if the legend on the sign indicates that only authorized personnel are allowed to enter the active portion and that entry onto the active portion can be dangerous.

BOARD NOTE: See Section 725.217(b) for discussion of security requirements at disposal facilities during the post-closure care period.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 725.115 General Inspection Requirements

- a) The owner or operator shall inspect the facility for malfunctions and deterioration, operator errors and discharges which that may be causing--or may lead to--the conditions listed below. The owner or operator shall conduct these inspections often enough to identify problems in time to correct them before they harm human health or the environment.
 - Release of hazardous waste constituents to the environment, or
 - 2) A threat to human health.
- b) Written schedule.
 - 1) The owner or operator shall develop and follow a written schedule for inspecting all monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, or responding to environmental or human health hazards.
 - The owner or operator shall keep this schedule at the facility.
 - 3) The schedule must identify the types of problems (e.g., malfunctions or deterioration) which that are to be looked for during the inspection (e.g., inoperative sump pump, leaking fitting, eroding dike, etc.).
 - 4) The frequency of inspection may vary for the items on the schedule. However, it should be based on the rate of deterioration of the equipment and the probability of an environmental or human health incident if the deterioration, malfunction, or any operator error goes undetected between inspections. Areas subject to spills, such as loading and unloading areas, must be inspected daily when in use. At a minimum, the inspection schedule must include the items and frequencies called for in Sections 725.274, 725.293, 725.295, 725.326, 725.360, 725.378, 725.404, 725.447, 725.477, 725.503, 725.933, 725.952, 725.953, and 725.958, 725.989, and 725.991(b), where applicable.
- c) The owner or operator shall remedy any deterioration or malfunction of equipment or structure whichthat the inspection reveals on a schedule which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action must be taken immediately.
- d) The owner or operator shall record inspections in an inspection log or summary. The owner or operator shall keep these records for at least three years from the date of inspection. At a

minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made and the date, and nature of any repairs or other remedial actions.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 725.117 General Requirements for Ignitable, Reactive, or Incompatible Wastes

- a) The owner or operator must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. This waste must be separated and protected from sources of ignition or reaction, including, but not limited to , open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat. While ignitable or reactive waste is being handled, the owner or operator must confine smoking and open flame to specially designated locations. "No Smoking" signs must be conspicuously placed wherever there is a hazard from ignitable or reactive waste.
- b) Where specifically required by other <u>sections</u> of this <u>pPart</u>, the treatment, storage, or disposal of ignitable or reactive waste and the mixture or commingling of incompatible waste or incompatible wastes and materials, must be conducted so that it does not:
 - Generate extreme heat or pressure, fire or explosion, or violent reaction;
 - - Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;
 - 4) Damage the structural integrity of the device or facility containing the waste; or
 - 5) Through other like means, threaten human health or the environment.

(Source: Amended at 19 Ill. Reg. , effective)

SUBPART D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES

Section 725.150 Applicability

The regulations in this $\underline{s}_{\underline{s}}$ ubpart apply to owners and operators of all hazardous waste facilities, except as Section 725.101 provides otherwise.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 725.156 Emergency Procedures

- a) Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) shall immediately:
 - 1) Activate internal facility alarms or communication systems,

where applicable, to notify all facility personnel; and

- 2) Notify appropriate state or local agencies with designated response roles if their help is needed.
- b) Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, amount, and a real extent of any released materials. He or she may do this by observation or review of facility records or manifests and, if necessary, by chemical analysis.
- c) Concurrently, the emergency coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment must consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water runoffs from water or chemical agents used to control fire and heat-induced explosions).
- d) If the emergency coordinator determines that the facility has had a release, fire, or explosion that could threaten human health or the environment outside the facility, he or she shall report his findings as follows:
 - If his assessment indicates that evacuation of local areas may be advisable, he or she shall immediately notify appropriate local authorities. He or she must be available to help appropriate officials decide whether local areas should be evacuated; and
 - 2) He or she shall immediately notify either the government official designated as the on-scene coordinator for that geographical area (in the applicable regional contingency plan under 40 CFR Part-300), or the National Response Center (using their 24-hour toll free number 800-424-8802). The report must include:
 - A) Name and telephone number of reporter;
 - B) Name and address of facility;
 - C) Time and type of incident (e.g., release, fire);
 - D) Name and quantity of material(s) involved, to the extent known;
 - E) The extent of injuries, if any; and
 - F) The possible hazards to human health or the environment outside the facility.
- e) During an emergency the emergency coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous waste at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers.
- f) If the facility stops operations in response to a fire, explosion or release, the emergency coordinator shall monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or

other equipment, wherever this is appropriate.

g) Immediately after an emergency, the emergency coordinator shall provide for treating, storing, or disposing of recovered waste, contaminated soil, or surface water, or any other material that results from a release, fire, or explosion at the facility.

<u>CommentBOARD NOTE</u>: Unless the owner or operator can demonstrate, in accordance with Section 721.103(\underline{ed}) or (\underline{de}) that the recovered material is not a hazardous waste, the owner or operator becomes a generator of hazardous waste and shall manage it in accordance with all applicable requirements of Parts 722, 723, and 725.

- h) The emergency coordinator shall ensure that, in the affected area(s) of the facility:
 - No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed; and
 - All emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed.
- The owner or operator shall notify the Director and other appropriate state and local authorities that the facility is in compliance with <u>paragraphsubsection</u> (h) of this sectionabove before operations are resumed in the affected area(s) of the facility.
- j) The owner or operator shall note in the operating record the time, date, and details of any incident that requires implementing the contingency plan. Within 15 days after the incident, it shall submit a written report on the incident to the Director. The report must include:
 - Name, address, and telephone number of the owner or operator;
 - 2) Name, address, and telephone number of the facility;
 - Date, time, and type of incident (e.g., fire, explosion);
 - Name and quantity of material(s) involved;
 - 5) The extent of injuries, if any;
 - 6) An assessment of actual or potential hazards to human health or the environment, where this is applicable; and
 - 7) Estimated quantity and disposition of recovered material that resulted from the incident.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART E: MANIFEST SYSTEM, RECORDKEEPING AND REPORTING

Section 725.171 Use of Manifest System

a) If a facility receives hazardous waste accompanied by a manifest, the owner or operator or his agent must:

- Sign and date each copy of the manifest to certify that the hazardous waste covered by the manifest was received;
- 2) Note any significant discrepancies in the manifest, tas defined in Section 725.172(a); on each copy of the manifest;

<u>CommentBOARD NOTE</u>: The Board does not intend that the<u>An</u> owner or operator of a facility whose procedures under Section 725.113(c) include waste analysis <u>mustneed not</u> perform that analysis before signing the manifest and giving it to the transporter. Section 725.172(b), however, requires <u>the owner or operator to</u> reporting any unreconciled discrepancy discovered during later analysis.

- 3) Immediately give the transporter at least one copy of the signed manifest;
- 4) Within 30 days after the delivery, ssend a copy of the manifest to each of the generator and to the Agency within 30 days of the date of delivery; and
- 5) Retain at the facility a copy of each manifest for at least three years from the date of delivery.
- b) If a facility receives from a rail or water (bulk shipment) transporter hazardous waste whichthat is accompanied by a shipping paper containing all the information required on the manifest (excluding the <u>U.S. EPA</u> identification numbers, generator's certification and signatures), the owner or operator or hisits agent must:
 - Sign and date each copy of the manifest or shipping paper (if the manifest has not been received) to certify that the hazardous waste covered by the manifest or shipping paper was received;
 - 2) Note any significant discrepancies, fas defined in Section 725.172(a); in the manifest or shipping paper (if the manifest has not been received) on each copy of the manifest or shipping paper;

CommentBOARD NOTE: The Board does not intend that the owner or operator of a facility whose procedures under Section 725.113(c) include waste analysis <u>mustneed not</u> perform that analysis before signing the shipping paper and giving it to the transporter. Section 725.172(b), however, requires reporting an unreconciled discrepancy discovered during later analysis.

- 3) Immediately give the rail or water (bulk shipment) transporter at least one copy of the manifest or shipping paper (if the manifest has not been received);
- 4) Within 30 days after the delivery, ssend a copy of the signed and dated manifest to the generator and to the Agency within 30 days after the delivery; however, if the manifest has not been received within 30 days after delivery, the owner or operator, or his agent, must send a copy of the shipping paper signed and dated to the generator; and

CommentBOARD NOTE: Section35 Ill. Adm. Code 722.123(c)

requires the generator to send three copies of the manifest to the facility when hazardous waste is sent by rail or water (bulk shipment).

- 5) Retain at the facility a copy of the manifest and shipping paper (if signed in lieu of the manifest at the time of delivery) for at least three years from the date of delivery.
- c) Whenever a shipment of hazardous waste is initiated from a facility, the owner or operator of that facility must comply with the requirements of Part<u>35 Ill. Adm. Code</u> 722.

CommentBOARD NOTE: The provisions of Section35 Ill. Adm. Code 722.134 are applicable to the on-site accumulation of hazardous wastes by generators. Therefore, the provisions of Section35 Ill. Adm. Code 722.134 only apply only to owners or operators whothat are shipping hazardous waste which that they generated at that facility.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 725.173 Operating Record

- a) The owner or operator shall keep a written operating record at the facility.
- b) The following information must be recorded as it becomes available and maintained in the operating record until closure of the facility.
 - A description and the quantity of each hazardous waste received and the method or methods and date or dates of its treatment, storage, or disposal at the facility as required by <u>Section 725.Appendix A;</u>
 - 2) The location of each hazardous waste within the facility and the quantity at each location. For disposal facilities the location and quantity of each hazardous waste must be recorded on a map or diagram of each cell or disposal area. For all facilities this information must include crossreferences to specific manifest document numbers if the waste was accompanied by a manifest;

BOARD NOTE: See Sections 725.219, 725.379, and 725.409 for related requirements.

- 3) Records and results of waste analysis, waste determinations, and trial tests performed as specified in Sections 725.113, 725.300, 725.325, 725.352, 725.373, 725.414, 725.441, 725.475, 725.502, 725.934, and 725.963, and 725.984 and 35 Ill. Adm. Code 728.104(a) and 728.107;
- 4) Summary reports and details of all incidents that require implementing the contingency plan as specified in Section 725.156(j);
- 5) Records and results of inspections as required by Sections 725.115(d) (except these data need be kept only three years);
- 6) Monitoring, testing, or analytical data and corrective

action data where required by <u>725.</u>Subpart F or Sections 725.119, 725.190, 725.194, 725.291, 725.293, 725.295, 725.322, 725.323, 725.326, 725.355, 725.359, 725.360, 725.376, 725.378, 725.380(d)(1), 725.402 through 725.404, 725.447, 725.477, 725.934(c) through (f), 725.935, 725.963(d) through (i), or 725.964, 725.989 through 725.991;

BOARD NOTE: As required by Section 725.194, monitoring data at disposal facilities must be kept throughout the post-closure period.

- 7) All closure cost estimates under Section 725.242 and, for disposal facilities, all post-closure cost estimates under Section 725.244;
- 8) Records of the quantities (and date of placement) for each shipment of hazardous waste placed in land disposal units under an extension of the effective date of any land disposal restriction granted pursuant to 35 Ill. Adm. Code 728.105, a petition pursuant to 35 Ill. Adm. Code 728.106, or a certification under 35 Ill. Adm. Code 728.108, and the applicable notice required of a generator under 35 Ill. Adm. Code 728.107(a);
- 9) For an off-site treatment facility, a copy of the noticer and the certification and demonstration, if applicable, required of the generator or the owner or operator under 35 Ill. Adm. Code 728.107 or 728.108;
- 10) For an on-site treatment facility, the information contained in the notice (except the manifest number), and the certification and demonstration, if applicable, required of the generator or the owner or operator under 35 Ill. Adm. Code 728.107 or 728.108;
- 11) For an off-site land disposal facility, a copy of the notice, and the certification and demonstration, if applicable, required of the generator or the owner or operator of a treatment facility under 35 Ill. Adm. Code 728.107 or 728.108, whichever is applicable; and
- 12) For an on-site land disposal facility, the information contained in the notice required of the generator or owner or operator of a treatment facility under 35 Ill. Adm. Code 728.107, except for the manifest number, and the certification and demonstration, if applicable, required under 35 Ill. Adm. Code <u>728.107 or</u> 728.108, whichever is applicable.;
- 13) For an off-site storage facility, a copy of the notice_{au} and the certification and demonstration_L if applicable, required of the generator or the owner or operator under 35 Ill. Adm. Code 728.107 or 728.108; and_{au}
- 14) For an on-site storage facility, the information contained in the notice (except the manifest number) τ and the certification and demonstration, if applicable, required of the generator or the owner or operator under 35 Ill. Adm. Code 728.107 or 728.108.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 725.177 Additional Reports

In addition to submitting the annual report and unmanifested waste reports described in Sections 725.175 and 725.176, the owner or operator shall also report to the Agency:

- a) Releases, fires, and explosions, as specified in Section 725.156(j);
- b) Groundwater contamination and monitoring data, as specified in Section 725.193 and 725.194;
- c) Facility closure, as specified in Section 725.215; and
- d) As otherwise required by <u>725.</u>Subparts AA, and BB, and CC.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART F: GROUNDWATER MONITORING

Section 725.192 Sampling and Analysis

- a) The owner or operator <u>mustshall</u> obtain and analyze samples from the installed groundwater monitoring system. The owner or operator <u>mustshall</u> develop and follow a groundwater sampling and analysis plan. <u>HeThe owner or operator</u> <u>mustshall</u> keep this plan at the facility. The plan must include procedures and techniques for:
 - 1) Sample collection;
 - 2) Sample preservation and shipment;
 - 3) Analytical procedures; and
 - 4) Chain of custody control.

CommentBOARD NOTE: See "Procedures Manual For Groundwater Monitoring At Solid Waste Disposal Facilities₇" EPA-530/SW-611, August 1977 and "Methods for Chemical Analysis of Water and Wastes₇", EPA-600/4-79-020, March 1979incorporated by reference in 35 Ill. Adm. Code 720.111, for discussions of sampling and analysis procedures.

- b) The owner or operator <u>mustshall</u> determine the concentration or value of the following parameters in groundwater samples in accordance with <u>paragraphssubsections</u> (c) and (d) of this <u>sectionbelow</u>:
 - Parameters characterizing the suitability of the groundwater as a drinking water supply, as specified in <u>Section</u> <u>725.Appendix IIIC</u>.
 - 2) Parameters extablishing groundwater quality+:
 - A) Chloride,
 - B) Iron,
 - C) Manganese,

- 141
- D) Phenols_
- E) Sodium, and
- F) Sulfate.

CommentBOARD NOTE: These parameters are to be used as a basis for comparison in the event a groundwater quality assessment is required under Section 725.193(d).

- 3) Parameters used as indicators of groundwater contamination:
 - A) pH_
 - B) Specific Conductance,
 - C) Total Organic Carbon, and
 - D) Total Organic Halogen.
- c) <u>Establishing background concentrations:</u>
 - For all monitoring wells, the owner or operator <u>mustshall</u> establish initial background concentrations or values of all parameters specified in <u>paragraphsubsection</u> (b) of this <u>sectionabove</u>. <u>HeThe owner or operator</u> <u>mustshall</u> do this quarterly for one year.
 - 2) For each of the indicator parameters specified in paragraphsubsection (b)(3) above, the owner or operator shall obtain at least four replicate measurements must be obtained for each sample and determine the initial background arithmetic mean and variance must be determined by pooling the replicate measurements for the respective parameter concentrations or values in samples obtained from upgradient wells during the first year.
- d) After the first year, <u>the owner or operator shall sample</u> all monitoring wells must be sampled and <u>analyze</u> the samples analyzed with the following frequencies:
 - Samples collected to establish groundwater quality must be obtained and analyzed for the parameters specified in paragraphsubsection (b)(2) of this sectionabove at least annually.
 - 2) Samples collected to indicate groundwater contamination must be obtained and analyzed for the parameters specified in paragraphsubsection (b)(3) of this sectionabove at least semi-annually.
- e) <u>The owner or operator shall determine the e</u>Elevation of the groundwater surface at each monitoring well must be determined each time a sample is obtained.

(Source: Amended at 19 Ill. Reg. , effective)

Section 725.194 Recordkeeping and Reporting

a) Unless the groundwater is monitored to satisfy the requirements of Section 725.193(d)(4), the owner or operator mustshall:

- 1) Keep records of the analyses required in Section 725.192(c) and (d), the associated groundwater surface elevations required in Section 725.192(e), and the evaluations required in Section 725.193(b) throughout the active life of the facility and, for disposal facilities, <u>also</u> throughout the post-closure care period as well; and
- Report the following groundwater monitoring information to the <u>DirectorAgency</u>:
 - A) During the first year when initial background concentrations are being established for the facility: concentrations or values of the parameters listed in Section 725.192(b)(1) for each groundwater monitoring well, within 15 days after completing each quarterly analysis. The owner or operator <u>mustshall</u> separately identify for each monitoring well any parameters whose concentration or value has been found to exceed the maximum contaminant levels listed in <u>Section</u> <u>725.Appendix HIC</u>.
 - B) Annually: concentrations or values of the parameters listed in Section 725.192(b)(3) for each groundwater monitoring well, along with the required evaluations for these parameters under Section 725.193(b). The owner or operator <u>mustshall</u> separately identify any significant differences from initial background found in the upgradient wells, in accordance with Section 725.193(c)(1). During the active life of the facility, the owner or operator shall submit this information <u>must be submitted</u> as part of the annual report required under Section 725.175.
 - C) As part of the annual report required under Section 725.175: results of the evaluation of groundwater surface elevations under Section 725.193(f) and a description of the response to the evaluation, where applicable.
- b) If the groundwater is monitored to satisfy the requirements of Section 725.193(d)(4), the owner or operator <u>mustshall</u>:
 - Keep records of the analyses and evaluations specified in the plan₇ which that satisfiesy the requirements of Section 725.193(d)(3) throughout the active life of the facility and, for disposal facilities, <u>also</u> throughout the post-closure care period<u>as well</u>; and
 - 2) Annually, until final closure of the facility, submit to the <u>DirectorAgency</u> a report containing the results of <u>histhe</u> groundwater quality assessment program <u>whichthat</u> includes, but is not limited to, the calculated (or measured) rate of migration of hazardous waste or hazardous waste constituents in the groundwater during the reporting period. <u>The owner</u> or operator shall submit tThis report <u>must be submitted</u> as part of the annual report required under Section 725.175.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART I: USE AND MANAGEMENT OF CONTAINERS

143

Section 725.271 Condition of Containers

If a container holding hazardous waste is not in good condition or if it begins to leak, the owner or operator <u>mustshall</u> transfer the hazardous waste from this container to a container that is in good condition or manage the waste in some other way that it complies with the requirements of this Part.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 725.272 Compatibility of Waste with Container

The owner or operator <u>mustenall</u> use a container made of or lined with materials <u>whichthat</u> will not react with and are otherwise compatible with the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired.

(Source: Amended at 19 Ill. Reg. , effective _____)

Section 725.274 Inspections

The owner or operator <u>mustshall</u> inspect areas where containers are stored at least weekly, looking for leaks and for deterioration caused by corrosion or other factors.

CommentBOARD NOTE: See Section 725.271 for remedial action required if deterioration or leaks are detected.

(Source: Amended at 19 Ill. Reg. , effective _____)

Section 725.278 Air Emission Standards

The owner or operator shall manage all hazardous waste placed in a container in accordance with the requirements of 724.Subpart CC.

(Source: Added at 19 Ill. Reg. , effective)

SUBPART J: TANK SYSTEMS

Section 725.301 Generators of 100 to 1000 kg/mo-

- a) The requirements of this Section apply to small quantity generators of that generate more than 100 kg but less than 1000 kg of hazardous waste in a calendar month, that accumulate hazardous waste in tanks for less than 180 days (or 270 days if the generator must ship the waste greater than 200 miles), and that do not accumulate over 6,000 kg on-site at any time.
- b) <u>A g</u>Generators of between 100 and 1000 kg/mo hazardous waste shall comply with the following general operating requirements:
 - Treatment or storage of hazardous waste in tanks must comply with Section 725.117(b)+;
 - 2) Hazardous wastes or treatment reagents must not be placed in a tank if they could cause the tank or its inner liner to rupture, leak, corrode, or otherwise fail before the end of its intended life;
 - 3) Uncovered tanks must be operated to ensure at least 60 centimeters (2 feet) of freeboard, unless the tank is equipped with a containment structure (e.g., dike or

trench), a drainage control system, or a diversion structure (e.g., standby tank) with a capacity that equals or exceeds the volume of the top 60 centimeters (2 feet) of the tank $\frac{1}{r_i}$ and

4) Where hazardous waste is continuously fed into a tank, the tank must be equipped with a means to stop this inflow (e.g., waste feed cutoff system or by-pass system to a stand-by tank).

BOARD NOTE: These systems are intended to be used in the event of a leak or overflow from the tank due to a system failure (e.g., a malfunction in the treatment process, a crack in the tank, etc.).

- c) <u>A gGenerators</u> of between 100 and 1000 kg/mo accumulating hazardous waste in tanks shall inspect, where present:
 - Discharge control equipment (e.g., waste feed cutoff systems, by-pass systems, and drainage systems) at least once each operating day, to ensure that it is in good working order;
 - 2) Data gathered from monitoring equipment (e.g., pressure and temperature gauges) at least once each operating day to ensure that the tank is being operated according to its design;
 - 3) The level of waste in the tank at least once each operating day to ensure compliance with subsection (b)(3)<u>above;</u>
 - 4) The construction materials of the tank at least weekly to detect corrosion or leaking of fixtures or seams; and
 - 5) The construction materials of τ and the area immediately surrounding τ discharge confinement structures (e.g., dikes) at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation).

BOARD NOTE: As required by Section 725.115(c), the owner or operator must remedy any deterioration or malfunction the owner or operator finds.

d) <u>A g</u>enerators of between 100 and 1000 kg/mo accumulating hazardous waste in tanks shall, upon closure of the facility, remove all hazardous waste from tanks, discharge control equipment and discharge confinement structures.

BOARD NOTE: At closure, as throughout the operating period, unless the owner or operator demonstrates, in accordance with 35 Ill. Adm. Code 721.103(ed) or (de), that any solid waste removed from the tank is not a hazardous waste, the owner or operator becomes a generator of hazardous waste and must manage it in accordance with all applicable requirements of 35 Ill. Adm. Code 722, 723, and 725.

- e) <u>A q</u>Generators of between 100 and 1000 kg/mo shall comply with the following special requirements for ignitable or reactive waste:
 - Ignitable or reactive waste must not be placed in a tank_r unless:

- A) The waste is treated, rendered, or mixed before or immediately after placement in a tank so that;
 - i) The resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under 35 Ill. Adm. Code 721.121 or 721.123, and
 - ii) Section 725.117(b) is complied with; or
- B) The waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite or react; or
- C) The tank is used solely for emergencies.
- 2) The owner or operator of a facility which that treats or stores ignitable or reactive waste in covered tanks shall comply with the buffer zone requirements for tanks contained in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," incorporated by reference in 35 Ill. Adm. Code 720.111.
- f) <u>A q</u>Generators of between 100 and 1000 kg/mo shall comply with the following special requirements for incompatible wastes:
 - Incompatible wastes, or incompatible wastes and materials (see Appendix E for examples) must not be placed in the same tank, unless Section 725.117(b) is complied with.
 - 2) Hazardous waste must not be place<u>d</u> in an unwashed tank whichthat previously held an incompatible waste or material₇ unless Section 725.117(b) is complied with.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 725.302 Air Emission Standards

The owner or operator shall manage all hazardous waste placed in a tank in accordance with the requirements of 724.Subparts AA, BB, and CC.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART K: SURFACE IMPOUNDMENTS

Section 725.325 Waste Analysis and Trial Tests

In addition to the waste analyses required by Section 725.113, whenever a surface impoundment is to be used to:

- a) Chemically treat a hazardous waste whichthat is substantially different from waste previously treated in that impoundment; or
- b) Chemically treat hazardous waste with a substantially different process than and previously used in that impoundment, the owner or operator must, before treating the different waste or using the different process:
 - Conduct waste analyses and trial treatment tests (e.g., bench scale or pilot plant scale tests); or

2) Obtain written, documented information oron similar treatment of similar waste under similar operating conditions+, to show that this treatment will comply with Section 725.117(b).

CommentBOARD NOTE: As required by Section 725.113, the waste analyses plan must include analyses needed to comply with Sections 725.329 and 725.330. As required by Section 725.173, the owner or operator <u>mustshall</u> place the results from each waste analysis and trial test, or the documented information in the operating record of the facility.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 725.331 Air Emission Standards

The owner or operator shall manage all hazardous waste placed in a surface impoundment in accordance with the requirements of 724.Subpart CC.

(Source: Added at 19 Ill. Reg. ____, effective _____)

SUBPART L: WASTE PILES

Section 725.352 Waste Analysis

- a) In addition to the waste analyses required by Section 725.113, the owner or operator <u>mustshall</u> analyze a representative sample of waste from each incoming movement before adding the waste to any existing pile unless:
 - The only wastes the facility receives which that are amenable to piling are compatible with each other, or
 - 2) The waste received is compatible with the waste in the pile to which it is to be added.
- b) The analysis conducted must be capable of differentiating between the types of hazardous waste the owner or operator places in piles, so that mixing of incompatible waste does not inadvertently occur. The analysis must include a visual comparison of color and texture.

CommentBOARD NOTE: As required by Section 725.113, the waste analysis plan must include analyses needed to comply with Sections 725.356 and 725.357. As required by Section 725.173, the owner or operator must place the results of this analysis in the operating record of the facility.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART M: LAND TREATMENT

Section 725.378 Unsaturated Zone (Zone of Aeration) Monitoring

- a) The owner or operator <u>mustshall</u> have in writing, and <u>mustshall</u> implement, an unsaturated zone monitoring plan <u>whichthat</u> is designed to:
 - 1) Detect the vertical migration of hazardous waste and hazardous waste constituents under the active portion of the

land treatment facility, and

- 2) Provide information on the background concentrations of the hazardous waste and hazardous waste constitients in similar but untreated soil nearby1. tThis background monitoring must be conducted before or in conjunction with the monitoring required under paragraphsubsection (a)(1) of this sectionabove.
- b) The unsaturated zone monitoring plan must include, at a minimum:
 - 1) Soil monitoring using soil cores, and
 - Soil-pore water monitoring using devices, such as lysimeters.
- c) To comply with <u>paragraphsubsection</u> (a)(1) of this sectionabove, the owner or operator must demonstrate in his unsaturated zone monitoring plan that:
 - The depth at which soil and soil-pore water samples are to be taken is below the depth to which the waste is incorporated into the soil;
 - 2) The number of soil and soil-pore water samples to be taken is based on the variability of:
 - A) The hazardous waste constituents (as identified in Section 725.373(a) and(b)) in the waste and in the soil₇ and
 - B) The soil type(s); and
 - 3) The frequency and timing of soil and soil-pore water sampling is based on the frequency, time, and rate of waste application, proximity to ground water, and soil permeability.
- d) The owner or operator <u>mustshall</u> keep at the facility <u>hisits</u> unsaturated zone monitoring plan and the rationale used in developing this plan.
- e) The owner or operator <u>mustshall</u> analyze the soil and soil-pore water samples for the hazardous waste constituents that were found in the waste during the waste analysis under Section 725.373(a) and (b).

Comment<u>BOARD NOTE</u>: As required by Section 725.173, <u>the owner or</u> <u>operator must place</u> all data and information developed by the owner or operator under this <u>sSection must be placed</u> in the operating record of the facility.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART P: THERMAL TREATMENT

Section 725.477 Monitoring and Inspections

The owner or operator <u>mustshall</u> conduct, as a minimum, the following monitoring and inspections when thermally treating hazardous waste:

148

- Existing instruments which that relate to temperature and emission a) control (if an emission control device is present) must be monitored at least every 15 minutes. Appropriate corrections to maintain steady state or other appropriate thermal treatment conditions must be made immediately either automatically or by the operator. Instruments whichthat relate to temperature and emission control would normally include those measuring waste feed, auxiliary fuel feed, treatment process temperature and relevant process flow and level controls.
- b) The stack plume (emissions), where present, must be observed visually at least hourly for normal appearance (color and opacity). The operator must immediately make any indicated operating corrections necessary to return any visible emissions to their normal appearance.
- C) The complete thermal treatment process and associated equipment (pumps, valves, conveyors, pipes, etc.) must be inspected at least daily for leaks, spills and fugitive emissions, and all emergency shutdown controls and system alarms must be checked to assure proper operation.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART Q: CHEMICAL, PHYSICAL AND BIOLOGICAL TREATMENT

General Operating Requirements Section 725.501

- Chemical, physical or biological treatment of hazardous waste must a) comply with Section 725.117(b).
- Hazardous waste or treatment reagents must not be placed in the b) treatment process or equipment if they could cause the treatment process or equipment to rupture, leak, corrode, or otherwise fail before the end of its intended life.
- Where hazardous waste is continuously fed into a treatment process C) or equipment, the process or equipment must be equipped with a means to stop this inflow (e.g., a waste feed cutoff system or bypass system to a standby containment device).

CommentBOARD NOTE: These systems are intended to be used in the event of a malfunction in the treatment process or equipment.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 725.502 Waste Analysis and Trial Tests

- In addition to the waste analysis required by Section 725.113, a) paragraphsubsection (b) above applies whenever:
 - 1) A hazardous waste which that is substantially different from waste previously treated in a treatment process or equipment at the facility is to be treated in that process or equipment, or
 - A substantially different process from any previously used 2) at the facility is to be used to chemically treat hazardous waste.
- To show that this proposed treatment will meet all applicable b)

requirements of Section 725.501(a) and (b), the owner or operator must, before treating the different waste or using the different process or equipment:

- Conduct waste analyses and trial treatment tests (e.g., bench scale or pilot plant scale tests)+, or
- Obtain written, documented information on similar treatment of similar waste under similar operating conditions.

CommentBOARD NOTE: As required by Section 725.113, the waste analysis plan must include analyses needed to comply with Sections 725.505 and 725.506. As required by Section 725.173, the owner or operator <u>mustshall</u> place the results from each waste analysis and trial test, or the documented information, in the operating record of the facility.

(Source: Amended at 19 Ill. Reg. , effective _____)

Section 725.503 Inspections

The owner operator of a treatment facility must shall inspect, where present:

- a) Discharge control and safety equipment (e.g., waste feed cutoff systems, bypass systems, drainage systems, and pressure relief systems) at least once each operating day to ensure that it is in good working order;
- b) Data gathered from monitoring equipment (e.g., pressure and temperature gauges) at least once each operating day to ensure that the treatment process or equipment is being operated according to its design;
- c) The construction materials of the treatment process or equipment at least weekly to detect corrosion or leaking of fixtures or seams; and
- d) The construction materials of, and the area immediately surrounding, discharge confinement structures (e.g., dikes) at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation).

CommentBOARD NOTE: As required by Section 725.115(c), the owner or operator must remedy any deterioration or malfunction <u>heit</u> finds.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 725.504 Closure

At closure, all hazardous waste and hazardous waste residues must be removed from treatment processes or equipment, discharge control equipment, and discharge confinement structures.

CommentBOARD NOTE: At closure, as throughout the operating period, unless the owner or operator can demonstrate, in accordance with Section35 Ill. Adm. Code 721.103(c) or (d), that any solid waste removed from his treatment process or equipment is not a hazardous waste, the owner or operator becomes a generator of hazardous waste and must manage it in accordance with all applicable requirements of Parts35 Ill. Adm. Code 722, 723, and 725.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 725.505 Special Requirements for Ignitable or Reactive Waste

Ignitable or reactive waste must not be placed in a treatment process or equipment unless:

- a) The waste is treated, rendered or mixed before or immediately after placement in the treatment process or equipment so that
 - 1) The resulting waste, mixture or dissolution of material no longer meets the definition of ignitable or reactive waste under Section 721.121 or 721.123, and
 - 2) Section 725.117(b) is complied with; or
- b) The waste is treated in such a way that it is protected from any material or conditions which that may cause the waste to ignite or react.

(Source: Amended at 19 Ill. Reg. , effective)

Section 725.506 Special Requirements for Incompatible Wastes

- a) <u>An owner or operator shall not place i</u>Incompatible wastes or incompatible wastes and materials (see <u>Section 725</u>.Appendix <u>VE</u> for examples) <u>must not be placed</u> in the same treatment process or equipment unless <u>it complies with</u> Section 725.117(b) is complied with.
- b) <u>An owner or operator shall not place hHazardous waste must not be placed</u> in unwashed treatment equipment which that previously held an incompatible waste or material, unless <u>it complies with</u> Section 725.117(b) is complied with.

(Source: Amended at 19 Ill. Reg. , effective)

SUBPART AA: AIR EMISSION STANDARDS FOR PROCESS VENTS

Section 725.933 Standards: Closed-vent Systems and Control Devices

- a) Compliance Required.
 - 1) Owners or operators of closed-vent systems and control devices used to comply with provisions of this Part shall comply with the provisions of this Section.
 - The owner or operator of an existing facility whothat cannot 2) install a closed-vent system and control device to comply with the provisions of this Subpart on the effective date that the facility becomes subject to the provisions of this Subpart shall prepare an implementation schedule that includes dates by which the closed-vent system and control device will be installed and in operation. The controls must be installed as soon as possible, but the implementation schedule may allow up to 18 months after the effective date that the facility becomes subject to this Subpart for installation and startup. All units that begin operation after December 21, 1990, must comply with the rules immediately (i.e., must have control devices installed and operating on startup of the affected unit); the 2-year implementation schedule does not apply to these units.

- b) A control device involving vapor recovery (e.g., a condenser or adsorber) must be designed and operated to recover the organic vapors vented to it with an efficiency of 95 weight percent or greater unless the total organic emission limits of Section 725.932(a)(1) for all affected process vents is attained at an efficiency less than 95 weight percent.
- c) An enclosed combustion device (e.g., a vapor incinerator, boiler, or process heater) must be designed and operated to reduce the organic emissions vented to it by 95 weight percent or greater; to achieve a total organic compound concentration of 20 ppmv, expressed as the sum of the actual compounds, not carbon equivalents, on a dry basis corrected to 3 percent oxygen; or to provide a minimum residence time of 0.50 seconds at a minimum temperature of 760° C. If a boiler or process heater is used as the control device, then the vent stream must be introduced into the flame combustion zone of the boiler or process heater.
- d) Flares
 - A flare must be designed for and operated with no visible emissions as determined by the methods specified in subsection (e)(1) below except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
 - 2) A flare must be operated with a flame present at all times, as determined by the methods specified in subsection (f)(2)(c) below.
 - 3) A flare must be used only if the net heating value of the gas being combusted is 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted r. or if the net heating value of the gas being combusted is 7.45 MJ/scm (200 Btu/scf) or greater if the flare is nonassisted. The net heating value of the gas being combusted must be determined by the methods specified in subsection (e)(2) below.
 - 4) Exit Velocity.
 - A) A steam-assisted or nonassisted flare must be designed for and operated with an exit velocity, as determined by the methods specified in subsection (e)(3) below, less than 18.3 m/s (60 ft/s), except as provided in subsections (d)(4)(B) and (d)(4)(C) below.
 - B) A steam-assisted or nonassisted flare designed for and operated with an exit velocity, as determined by the methods specified in subsection (e)(3) below, equal to or greater than 18.3 m/s (60 ft/s) but less than 122 m/s (400 ft/s) is allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1000 Btu/scf).
 - C) A steam-assisted or nonassisted flare designed for and operated with an exit velocity, as determined by the methods specified in subsection (e)(3) below, less than the velocity, V as determined by the method specified in subsection (e)(4) and less than 122 m/s (400 ft/s) is allowed.
 - 5) An air-assisted flare must be designed and operated with an

exit velocity less than the velocity, V as determined by the method specified in subsection (e)(5) below.

- 6) A flare used to comply with this Section must be steamassisted, air-assisted, or nonassisted.
- e) Compliance determination and equations.
 - Reference Method 22 in 40 CFR 60, incorporated by reference in 35 Ill. Adm. Code 720.111, must be used to determine the compliance of a flare with the visible emission provisions of this Subpart. The observation period is 2 hours and must be used according to Method 22.
 - 2) The net heating value of the gas being combusted in a flare must be calculated using the following equation:

$$H_T = K \times \sum_{i=1}^n C_i \times H_i$$

H = K * SUM(Ci * Hi)

Where:

 H_T is the net heating value of the sample in MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25° C and 760 mm Hg, but the standard temperature for determining the volume corrersponding to 1 mole is 20° C.

 $K = 1.74 \times 10^{-7} = -7 \cdot (1/ppm)(g mol/scm)(MJ/kcal)$ where standard temperature for (g mol/scm) 20° C.

 $\frac{SUM(Xi)}{X_i} \Sigma X_i$ means the sum of the values of X for each component i, from i=1 to n.

 C_{\pm_i} is the concentration of sample component i in ppm on a wet basis, as measured for organics by Reference Method 18 in 40 CFR 60, and for carbon monoxide, by ASTM D_1946-90, incorporated by reference in 35 Ill. Adm. Code 720.111.

 $H_{\dot{t}_i}$ is the net heat of combustion of sample component i, kcal/gmol at 25° C and 760 mm Hg. The heats of combustion must be determined using ASTM D_2382-88, incorporated by reference in 35 Ill. Adm. Code 720.111, if published values are not available or cannot be calculated.

- 3) The actual exit velocity of a flare must be determined by dividing the volumetric flow rate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D in 40 CFR 60, incorporated by reference in 35 Ill. Adm. Code 720.111, as appropriate, by the unobstructed (free) cross-sectional area of the flare tip.
- 4) The maximum allowed velocity in m/s, V for a flare complying with subsection (d)(4)(C) above must be determined by the

following equation:

$$Log_{10}V_{\max} = \frac{H_T + 28.8}{31.7}$$

LOC(V) = (H + 28.8) / 31.7

Where:

LOCLog₁₀ means logarithm to the base 10

 H_T is the net heating value as determined in subsection (e)(2) <u>above</u>.

5) The maximum allowed velocity in m/s, V for an air-assisted flare must be determined by the following equation:

 $V=8.706+0.7084H_{T}$

V = 8.706 + 0.7084H

Where:

 H_T is the net heating value as determined in subsection (e)(2) above.

- f) The owner or operator shall monitor and inspect each control device required to comply with this Section to ensure proper operation and maintenance of the control device by implementing the following requirements:
 - 1) Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow indicator that provides a record of vent stream flow from each affected process vent to the control device at least once every hour. The flow indicator sensor must be installed in the vent stream at the nearest feasible point to the control device inlet but before being combined with other vent streams.
 - 2) Install, calibrate, maintain, and operate according to the manufacturer's specifications a device to continuously monitor control device operation as specified below:
 - A) For a thermal vapor incinerator, a temperature monitoring device equipped with a continuous recorder. The device must have accuracy of ± 1 percent of the temperature being monitored in <u>°</u> C or $\pm 0.5^{\circ}$ C, whichever is greater. $\pm The$ temperature sensor must be installed at a location in the combustion chamber downstream of the combustion zone.
 - B) For a catalytic vapor incinerator, a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature at two locations and have an accuracy of ± 1 percent of the temperature being monitored in C or $\pm 0.5^{\circ}$ C, whichever is greater. One temperature sensor must be installed in the vent stream at the nearest feasible

point to the catalyst bed inlet and a second temperature sensor must be installed in the vent stream at the nearest feasible point to the catalyst bed outlet.

- C) For a flare, a heat sensing monitoring device equipped with a continuous recorder that indicates the continuous ignition of the pilot flame.
- D) For a boiler or process heater having a design heat input capacity less than 44 MW, a temperature monitoring device equipped with a continuous recorder. The device must have an accuracy of ± 1 percent of the temperature being monitored in <u>°</u>C or $\pm 0.5^{\circ}$ C, whichever is greater. The temperature sensor must be installed at a location in the furnace downstream of the combustion zone.
- E) For a boiler or process heater having a design heat input capacity greater than or equal to 44 MW, a monitoring device equipped with a continuous recorder to measure a-parameter(s) that indicates good combustion operating practices are being used.
- F) For a condenser, either:
 - A monitoring device equipped with a continuous recorder to measure the concentration level of the organic compounds in the exhaust vent stream from the condenser; or
 - ii) A temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature at two locations and have an accuracy of ± 1 percent of the temperature being monitored in <u>°</u> C or $\pm 0.5^{\circ}$ C, whichever is greater. One temperature sensor must be installed at a location in the exhaust vent stream from the condenser, and a second temperature sensor must be installed at a location in the coolant fluid exiting the condenser.
- G) For a carbon adsorption system such as a fixed-bed carbon adsorber that regenerates the carbon bed directly in the control device, either:
 - A monitoring device equipped with a continuous recorder to measure the concentration level of the organic compounds in the exhaust vent stream from the carbon bed; or
 - ii) A monitoring device equipped with a continuous recorder to measure a parameter that indicates the carbon bed is regenerated on a regular, predetermined time cycle.
- 3) Inspect the readings from each monitoring device required by subsection (f)(1) and <u>(f)(2) above</u> at least once each operating day to check control device operation and, if necessary, immediately implement the corrective measures necessary to ensure the control device operates in

compliance with the requirements of this Section.

- g) An owner or operator using a carbon adsorption system such as a fixed-bed carbon adsorber that regenerates the carbon bed directly onsite in the control device shall replace the existing carbon in the control device with fresh carbon at a regular, predetermined time interval that is no longer than the carbon service life established as a requirement of Section 725.935(b)(4)(C)(vi).
- h) An owner or operator using a carbon adsorption system, such as a carbon canister, that does not regenerate the carbon bed directly onsite in the control device shall replace the existing carbon in the control device with fresh carbon on a regular basis by using one of the following procedures:
 - 1) Monitor the concentration level of the organic compounds in the exhaust vent stream from the carbon adsorption system on a regular schedule, and replace the existing carbon with fresh carbon immediately when carbon breakthrough is indicated. The monitoring frequency must be daily or at an interval no greater than 20 percent of the time required to consume the total carbon working capacity established as a requirement of Section 725.935(b)(4)(C)(vii), whichever is longer.
 - 2) Replace the existing carbon with fresh carbon at a regular, predetermined time interval that is less than the design carbon replacement interval established as a requirement of Section 725.935(b)(4)(C)(vii).
- i) An owner or operator of an affected facility seeking to comply with the provisions of this Part by using a control device other than a thermal vapor incinerator, catalytic vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system is required to develop documentation including sufficient information to describe the control device operation and identify the process parameter or parameters that indicate proper operation and maintenance of the control device.
- j) Closed vent systems.
 - Closed-vent systems must be designed for and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and by visual inspections, as determined by the methods specified at Section 725.934(b).
 - 2) Closed-vent systems must be monitored to determine compliance with this Section during the initial leak detection monitoring, which must be conducted by the date that the facility becomes subject to the provisions of this Section annually, and at other times as specified by the Agency pursuant to Section 725.930(c). For the annual leak detection monitoring after the initial leak detection monitoring, the owner or operator is not required to monitor those closed-vent system components that continuously operate in vacuum service or those closed-vent system joints, seams, or other connections that are permanently or semi-permanently sealed (e.g., a welded joint between two sections of metal pipe or a bolted and gasketed pipe flange).

- Detectable emissions, as indicated by an instrument reading 3) greater than 500 ppm and visual inspections, must be controlled as soon as practicable, but not later than 15 calendar days after the emission is detected.
- 4) A first attempt at repair must be made no later than 5 calendar days after the emission is detected.+
- k) Closed-vent systems and control devices used to comply with provisions of this Subpart must be operated at all times when emissions may be vented to them.
- 1) The owner or operator using a carbon adsorption system shall document that all carbon removed from the control device is managed in one of the following manners:
 - It is regenerated or reactivated in a thermal treatment unit that is permitted under 35 Ill. Adm. Code 724.Subpart X or 1) 725.Subpart P;
 - It is incinerated by a process that is permitted under 35 21 Ill. Adm. Code 724.Subpart O or 725.Subpart O; or
 - It is burned in a boiler or industrial furnace that is permitted under 35 Ill. Adm. Code 726.Subpart H. 3)

(Source: Amended at 19 Ill. Reg. ____, effective)

SUBPART BB: AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS

Section 725.963 Test Methods and Procedures

- Each owner or operator subject to the provisions of this Subpart a) shall comply with the test methods and procedures requirements provided in this Section.
- Leak detection monitoring, as required in Sections 725.952 through 725.962, must comply with the following requirements: b)
 - 1) Monitoring must comply with Reference Method 21 in 40 CFR 60, incorporated by reference in 35 Ill. Adm. Code 720.111.
 - 2) The detection instrument must meet the performance criteria of Reference Method 21.
 - The instrument must be calibrated before use on each day of 3) its use by the procedures specified in Reference Method 21.
 - Calibration gases must be: 4)
 - Zero air (less than 10 ppm of hydrocarbon in air). A)
 - B) A mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 ppm methane or n-hexane.
 - The instrument probe must be traversed around all potential 5) leak interfaces as close to the interface as possible as described in Reference Method 21.
 - When equipment is tested for compliance with no detectable

C)

emissions, as required in Sections 725.952(e), 725.953(i), 725.954, and 725.957(f), the test must comply with the following requirements:

- 1) The requirements of subsections (b)(1) through (b)(4) above apply.
- 2) The background level must be determined as set forth in Reference Method 21.
- 3) The instrument probe must be traversed around all potential leak interfaces as close to the interface as possible as described in Reference Method 21.
- 4) This arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.
- d) In accordance with the waste analysis plan required by Section 725.113(b), an owner or operator of a facility shall determine, for each piece of equipment, whether the equipment contains or contacts a hazardous waste with organic concentration that equals or exceeds 10 percent by weight using the following:
 - 1) Methods described in ASTM Methods D 2267-88, <u>E 168-88</u>, <u>E 169-87</u>, <u>E 168, or</u> E 260-85, incorporated by reference in 35 Ill. Adm. Code 720.111;
 - 2) Method 9060 or 8240 of SW-846, incorporated by reference in 35 Ill. Adm. Code 720.111; or
 - 3) Application of the knowledge of the nature of the hazardous wastestream or the process by which it was produced. Documentation of a waste determination by knowledge is required. Examples of documentation that must be used to support a determination under this provision include production process information documenting that no organic compounds are used, information that the waste is generated by a process that is identical to a process at the same or another facility that has previously been demonstrated by direct measurement to have a total organic content less than 10 percent, or prior speciation analysis results on the same wastestream where it is also documented that no process changes have occurred since that analysis that could affect the waste total organic concentration.
- e) If an owner or operator determines that a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the determination can be revised only after following the procedures in subsection (d)(1) or (d)(2) above.
- f) When an owner or operator and the Agency do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10 percent by weight, the procedures in subsection (d)(1) or (d)(2) above must be used to resolve the dispute.
- g) Samples used in determining the percent organic content must be representative of the highest total organic content hazardous waste that is expected to be contained in or contact the equipment.

- h) To determine if pumps or valves are in light liquid service, the vapor pressures of constituents must either be obtained from standard reference texts or be determined by ASTM D-_2879-86, incorporated by reference in 35 Ill. Adm. Code 720.111.
- i) Performance tests to determine if a control device achieves 95 weight percent organic emission reduction must comply with the procedures of Section 725.934(c)(1) through (c)(4).

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART CC: AIR EMISSION STANDARDS FOR TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS

Section 725.980 Applicability

a) The requirements of this Subpart apply, effective December 6, 1995, to owners and operators of all facilities that treat, store, or dispose of hazardous waste in tanks, surface impoundments, or containers subject to either 725.Subparts I, J, or K, except as Section 725.101 and subsection (b) below provide otherwise.

BOARD NOTE: U.S. EPA adopted these regulations at 59 Fed. Req. 62896 (Dec. 6, 1994), effective June 6, 1995. At 60 Fed. Req. 26828 (May 19, 1995), U.S. EPA delayed the effective date until December 6, 1995. If action by U.S. EPA or a decision of a federal court changes the effectiveness of these regulations, the Board does not intend that the 725.Subpart CC rules be enforceable to the extent that they become more stringent that the federal regulations upon which they are based.

- b) The requirements of this Subpart do not apply to the following waste management units at the facility:
 - 1) A waste management unit that holds hazardous waste placed in the unit before December 6, 1995 and in which no hazardous waste is added to the unit on or after this date.
 - 2) A container that has a design capacity less than or equal to 0.1 m³ (3.5 ft³ or 26.4 gal).
 - 3) A tank in which an owner or operator has stopped adding hazardous waste and the owner or operator has begun implementing or completed closure pursuant to an approved closure plan.
 - 4) A surface impoundment in which an owner or operator has stopped adding hazardous waste (except to implement an approved closure plan) and the owner or operator has begun implementing or completed closure pursuant to an approved closure plan.
 - 5) A waste management unit that is used solely for on-site treatment or storage of hazardous waste that is generated as the result of implementing remedial activities required pursuant to the Act or Board regulations or under the corrective action authorities of RCRA sections 3004(u), 3004(v) or 3008(h); CERCLA authorities; or similar federal or state authorities.
 - 6) A waste management unit that is used solely for the

management of radioactive mixed waste in accordance with all applicable regulations under the authority of the Atomic Energy Act (42 U.S.C. 2011 et seg.) and the Nuclear Waste Policy Act.

- c) For the owner and operator of a facility subject to this Subpart who has received a final RCRA permit prior to December 6, 1995, the following requirements apply:
 - 1) The requirements of 35 Ill. Adm. Code 724.Subpart CC must be incorporated into the permit when the permit is reissued, renewed, or modified in accordance with the requirements of 35 Ill. Adm. Code 703 and 705.
 - 2) Until the date when the permit is reissued, renewed, or modified in accordance with the requirements of 35 Ill. Adm. Code 703 and 705, the owner and operator is subject to the requirements of this Subpart.

(Source: Added at 19 Ill. Reg. , effective _____)

Section 725.981 Definitions

As used in this Subpart and in 35 Ill. Adm. Code 724, all terms not defined herein shall have the meaning given to them in the Act and 35 Ill. Adm. Code 720 through 726.

"Average volatile organic concentration" or "average VO concentration" means the mass-weighted average volatile organic concentration of a hazardous waste, as determined in accordance with the requirements of Section 725.984.

"Cover" means a device or system that is placed on or over a hazardous waste such that the entire hazardous waste surface area is enclosed and sealed to reduce air emissions to the atmosphere. A cover may have openings such as access hatches, sampling ports, and gauge wells that are necessary for operation, inspection, maintenance, or repair of the unit on which the cover is installed provided that each opening is closed and sealed when not in use. Examples of covers include a fixed roof installed on a tank, a floating membrane cover installed on a surface impoundment, a lid installed on a drum, or an enclosure in which an open container is placed during waste treatment.

"External floating roof" means a pontoon or double-deck type floating roof that rests on the surface of a hazardous waste being managed in a tank that has no fixed roof.

"Fixed roof" means a rigid cover that is installed in a stationary position so that it does not move with fluctuations in the level of the hazardous waste placed in a tank.

"Floating membrane cover" means a cover consisting of a synthetic flexible membrane material that rests upon and is supported by the hazardous waste being managed in a surface impoundment.

"Floating roof" means a pontoon-type or double-deck-type cover that rests upon and is supported by the hazardous waste being managed in a tank, and is equipped with a closure seal or seals to close the space between the cover edge and the tank wall.

"Internal floating roof" means a floating roof that rests or

floats on the surface (but not necessarily in complete contact with it) of a hazardous waste being managed in a tank that has a fixed roof.

"Liquid-mounted seal" means a foam or liquid-filled primary seal mounted in contact with the hazardous waste between the tank wall and the floating roof, continuously around the circumference of the tank.

"Maximum organic vapor pressure" means the equilibrium partial pressure exerted by the hazardous waste contained in a tank, determined at the temperature equal to either:

The local maximum monthly average temperature as reported by the National Weather Service, when the hazardous waste is stored or treated at ambient temperature, or

The highest calendar-month average temperature of the hazardous waste, when the hazardous waste is stored at temperatures above the ambient temperature or when the hazardous waste is stored or treated at temperatures below the ambient temperature.

"No detectable organic emissions" means no escape of organics from a device or system to the atmosphere, as determined:

By an instrument reading less than 500 parts per million by volume (ppmv) above the background level at each joint, fitting, and seal, when measured in accordance with the requirements of Method 21 in 40 CFR 60, Appendix A, and

By no visible openings or defects in the device or system such as rips, tears, or gaps.

"Point of waste origination" means as follows:

When the facility owner or operator is the generator of the hazardous waste, the "point of waste origination" means the point where a solid waste produced by a system, process, or waste management unit is determined to be a hazardous waste, as defined in 35 Ill. Adm. Code 721.

BOARD NOTE: In this case, this term is being used in a manner similar to the use of the term "point of generation" in air standards established for waste management operations under authority of the federal Clean Air Act in 40 CFR 60, 61, and 63.

When the facility owner and operator are not the generator of the hazardous waste, "point of waste origination" means the point where the owner or operator accepts delivery or takes possession of the hazardous waste.

"Point of waste treatment" means the point where a hazardous waste exits a waste management unit used to destroy, degrade, or remove organics in the hazardous waste.

"Vapor-mounted seal" means a foam-filled primary seal mounted continuously around the circumference of the tank so that there is an annular vapor space underneath the seal. The annular vapor space is bounded by the bottom of the primary seal, the tank wall, the hazardous waste surface, and the floating roof. "Volatile organic concentration" or "VO concentration" means the fraction by weight of organic compounds in a hazardous waste expressed in terms of parts per million (ppmw), as determined by direct measurement, using Method 25D, or by knowledge of the waste, in accordance with the requirements of Section 725.984.

"Waste determination" means performing all applicable procedures in accordance with the requirements of Section 725.984 to determine whether a hazardous waste meets standards specified in this Subpart. Examples of a waste determination include performing the procedures in accordance with the requirements of Section 725.984 to determine the average VO concentration of a hazardous waste at the point of waste origination, determining the average VO concentration of a hazardous waste at the point of waste treatment and comparing the results to the exit concentration limit specified for the process used to treat the hazardous waste, determining the organic reduction efficiency and the organic biodegradation efficiency for a biological process used to treat a hazardous waste and comparing the results to the applicable standards, or determining the maximum volatile organic vapor pressure for a hazardous waste in a tank and comparing the results to the applicable standards.

"Waste stabilization process" means any physical or chemical process used to either reduce the mobility of hazardous constituents in a hazardous waste or eliminate free liquids as determined by Test Method 9095 (Paint Filter Liquids Test) in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", incorporated by reference in Section 720.111. A waste stabilization process includes mixing the hazardous waste with binders or other materials and curing the resulting hazardous waste and binder mixture. Other synonymous terms used to refer to this process are "waste fixation" or "waste solidification".

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 725.982 Schedule for Implementation of Air Emission Standards

- a) Owners or operators of facilities existing on December 6, 1995 and subject to 725.Subparts I, J, and K shall meet the following requirements:
 - 1) The owner or operator shall install and begin operation of all control equipment required by this Subpart by December 6, 1995, except as provided in subsection (a)(2) below.
 - 2) When control equipment required by this Subpart cannot be installed and in operation by December 6, 1995, the owner or operator shall:
 - A) Install and begin operation of the control equipment as soon as possible, but in no case later than December 8, 1997.
 - B) Prepare an implementation schedule that includes the following information: specific calendar dates for award of contracts or issuance of purchase orders for the control equipment, initiation of on-site installation of the control equipment, completion of the control equipment installation, and performance of any testing to demonstrate that the installed equipment meets the applicable standards of this

162

Subpart.

- C) For facilities subject to the recordkeeping requirements of Section 725.173, the owner or operator shall enter the implementation schedule specified in subsection (a)(2)(B) above in the operating record no later than December 6, 1995.
- D) For facilities not subject to Section 725.173 above, the owner or operator shall enter the implementation schedule specified in subsection (a)(2)(B) of this section in a permanent, readily available file located at the facility no later than December 6, 1995.
- b) An owner or operator of facilities in existence on the effective date of statutory or regulatory amendments under the Act that render the facility subject to 725.Subparts I, J, or K shall meet the following requirements:
 - 1) The owner or operator shall install and begin operation of all control equipment required by this Subpart by the effective date of the amendment, except as provided in subsection (b)(2) below.
 - 2) When control equipment required by this Subpart cannot be installed and begin operation by the effective date of the amendment, the owner or operator shall:
 - A) Install and operate the control equipment as soon as possible, but in no case later than 30 months after the effective date of the amendment.
 - B) For facilities subject to the recordkeeping requirements of Section 725.173, enter and maintain the implementation schedule specified in subsection (a)(2)(B) above in the operating record no later than the effective date of the amendment, or
 - C) For facilities not subject to Section 725.173, the owner or operator shall enter and maintain the implementation schedule specified in subsection (a)(2)(B) above in a permanent, readily available file, located at the facility site, no later than the effective date of the amendment.
- <u>c)</u> The Agency may elect to extend the implementation date for control equipment at a facility, on a case by case basis, to a date later than December 8, 1997:
 - 1) When special circumstances that are beyond the facility owner's or operator's control delay installation or operation of control equipment, and
 - 2) The owner or operator has made all reasonable and prudent attempts to comply with the requirements of this Subpart.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 725.983 Standards: General

a) This Section applies to the management of hazardous waste in tanks, surface impoundments, and containers subject to this Subpart.

- b) The owner or operator shall control air emissions from each waste management unit in accordance with standards specified in Sections 725.985 through Section 725.988, as applicable to the waste management unit, except as provided for in subsection (c) below.
- c) A waste management unit is exempted from standards specified in Section 725.985 through Section 725.988, provided that all hazardous waste placed in the waste management unit is determined by the owner or operator to meet either of the following conditions:
 - 1) The average VO concentration of the hazardous waste at the point of waste origination is less than 100 parts per million by weight (ppmw). The average VO concentration must be determined by the procedures specified in Section 725.984(a).
 - 2) The organic content of the hazardous waste has been reduced by an organic destruction or removal process that achieves any one of the following conditions:
 - A) The process removes or destroys the organics contained in the hazardous waste to such a level that the average VO concentration of the hazardous waste at the point of waste treatment is less than the exit concentration limit (C,) established for the process. The average VO concentration of the hazardous waste at the point of waste treatment and the exit concentration limit for the process must be determined using the procedures specified in Section 725.984(b).
 - B) The process removes or destroys the organics contained in the hazardous waste to such a level that the organic reduction efficiency (R) for the process is equal to or greater than 95 percent, and the average VO concentration of the hazardous waste at the point of waste treatment is less than 50 ppmw. The organic reduction efficiency for the process and the average VO concentration of the hazardous waste at the point of waste treatment must be determined using the procedures specified in Section 725.984(b).
 - C) The process removes or destroys the organics contained in the hazardous waste to such a level that the actual organic mass removal rate (MR) for the process is greater than the required organic mass removal rate (RMR) established for the process. The required organic mass removal rate and the actual organic mass removal rate for the process must be determined using the procedures specified in Section 725.984(b).
 - D) The process is a biological process that destroys or degrades the organics contained in the hazardous waste so that either of the following conditions is met:
 - i) The organic reduction efficiency (R) for the process is equal to or greater than 95 percent, and the organic biodegradation efficiency (R_{bio}) for the process is equal to or greater than 95 percent. The organic reduction efficiency and the organic biodegradation efficiency for the process must be determined in accordance with

- ii) The total actual organic mass biodegradation rate (MR_{bio}) for all hazardous waste treated by the process is equal to or greater than the required organic mass removal rate (RMR). The required organic mass removal rate and the actual organic mass biodegradation rate for the process must be determined using the procedures specified in Section 725.984(b).
- E) The process is one that removes or destroys the organics contained in the hazardous waste and meets all of the following conditions:
 - i) All of the materials entering the process are hazardous wastes.
 - ii) From the point of waste origination through the point where the hazardous waste enters the process, the hazardous waste is continuously managed in waste management units that use air emission controls in accordance with the standards specified in Section 725.985 through Section 725.988, as applicable to the waste management unit.
 - iii) The average VO concentration of the hazardous waste at the point of waste treatment is less than the lowest average VO concentration at the point of waste origination determined for each of the individual hazardous waste streams entering the process or 100 ppmw, whichever value is lower. The average VO concentration of each individual hazardous waste stream at the point of waste origination must be determined using the procedure specified in Section 725.984(a). The average VO concentration of the hazardous waste at the point of waste treatment must be determined using the procedure specified in Section 725.984(b).
- F) <u>A hazardous waste incinerator for which the owner or</u> operator has either:
 - i) Been issued a final permit under 35 Ill. Adm. Code 703 and 705, and the owner or operator designs and operates the unit in accordance with the requirements of 35 Ill. Adm. Code 724.Subpart O; or
 - <u>ii)</u> The owner or operator has certified compliance for the unit with the interim status requirements of 725.Subpart O.
- <u>G) A boiler or industrial furnace for which the owner or operator has either:</u>
 - i) Been issued a final permit under 35 Ill. Adm. Code 703 and 705, and the owner or operator designs and operates the unit in accordance with the requirements of 35 Ill. Adm. Code

726.Subpart H, or

- <u>ii)</u> The owner or operator has certified compliance for the unit with the interim status requirements of 35 Ill. Adm. Code 726.Subpart H.
- d) When a process is used for the purpose of treating a hazardous waste to meet one of the sets of conditions specified in subsections (c)(2)(A) through (c)(2)(E) above, each material removed from or exiting the process that is not a hazardous waste but which has an average VO concentration equal to or greater than 100 ppmw must be managed in a waste management unit in accordance with the requirements of subsection (b) above.
- e) The Agency may at any time perform or request that the owner or operator perform a waste determination for a hazardous waste managed in a tank, surface impoundment, or container that is exempted from using air emission controls under the provisions of this Section as follows:
 - 1) The waste determination for average VO concentration of a hazardous waste at the point of waste origination must be performed using direct measurement in accordance with the applicable requirements of Section 725.984(a). The waste determination for a hazardous waste at the point of waste treatment must be performed in accordance with the applicable requirements of Section 725.984(b).
 - 2) Where the owner or operator is requested to perform the waste determination, the Agency may elect to have an authorized representative observe the collection of the hazardous waste samples used for the analysis.
 - 3) Where the results of the waste determination performed or requested by the Agency do not agree with the results of a waste determination performed by the owner or operator using knowledge of the waste, then the results of the waste determination performed in accordance with the requirements of subsection (e)(1) above must be used to establish compliance with the requirements of this Subpart.
 - 4) Where the owner or operator has used an averaging period greater than one hour for determining the average VO concentration of a hazardous waste at the point of waste origination, the Agency may elect to establish compliance with this Subpart by performing or requesting that the owner or operator perform a waste determination using direct measurement, based on waste samples collected within a 1hour period as follows:
 - A) The average VO concentration of the hazardous waste at the point of waste origination must be determined by direct measurement in accordance with the requirements of Section 725.984(a).
 - B) Results of the waste determination performed or requested by the Agency showing that the average VO concentration of the hazardous waste at the point of waste origination is equal to or greater than 100 ppmw shall constitute noncompliance with this Subpart, except in a case as provided for in subsection (e)(4)(C) below.

165

Where the average VO concentration of the hazardous C) waste at the point of waste origination previously has been determined by the owner or operator using an averaging period greater than one hour to be less than 100 ppmw but because of normal operating process variations the VO concentration of the hazardous waste determined by direct measurement for any given 1-hour period may be equal to or greater than 100 ppmw, information that was used by the owner or operator to determine the average VO concentration of the hazardous waste (e.g., test results, measurements, calculations, and other documentation) and recorded in the facility records in accordance with the requirements of Sections 725.984(a) and 725.990 must be considered by the Agency together with the results of the waste determination performed or requested by the Agency in establishing compliance with this Subpart.

(Source: Added at 19 Ill. Reg. , effective)

Section 725.984 Waste Determination Procedures

- <u>a)</u> Waste determination procedure for volatile organic (VO) concentration of a hazardous waste at the point of waste origination.
 - 1) An owner or operator shall determine the average VO concentration at the point of waste origination for each hazardous waste placed in a waste management unit exempted under the provisions of Section 725.983(c)(1) from using air emission controls in accordance with standards specified in Section 725.985 through Section 725.988, as applicable to the waste management unit.
 - 2) When the facility owner or operator is the generator of the hazardous waste, the owner or operator shall determine the average VO concentration of the hazardous waste using either direct measurement, as specified in subsection (a)(5) below, or knowledge of the waste, as specified in subsection (a)(6) below, for each hazardous waste generated as follows:
 - A) When the hazardous waste is generated as part of a continuous process, the owner or operator shall:
 - i) Perform an initial waste determination of the average VO concentration of the waste stream before the first time any portion of the material in the waste stream is placed in a waste management unit subject to this Subpart and thereafter update the information used for the waste determination at least once every 12 months following the date of the initial waste determination; and
 - ii) Perform a new waste determination whenever changes to the source generating the waste stream are reasonably likely to cause the average VO concentration of the hazardous waste to increase to a level that is equal to or greater than the applicable VO concentration limits specified in Section 725.983.

- B) When the hazardous waste is generated as part of a batch process that is performed repeatedly but not necessarily continuously, the owner or operator shall:
 - i) Perform an initial waste determination of the average VO concentration for one or more representative waste batches generated by the process, before the first time any portion of the material in the batches is placed in a waste management unit subject to this Subpart, and thereafter update the information used for the waste determination at least once every 12 months following the date of the initial waste determination; and
 - ii) Perform a new waste determination whenever changes to the process generating the waste batches are reasonably likely to cause the average VO concentration of the hazardous waste to increase to a level that is equal to or greater than the applicable VO concentration limits specified in Section 725.983.
- 3) When the facility owner and operator is not the generator of the hazardous waste, the owner or operator shall determine the average VO concentration of the hazardous waste using either direct measurement, as specified in subsection (a)(5) below, or knowledge of the waste, as specified in subsection (a)(6) below, for each hazardous waste entering the facility as follows:
 - A) When the hazardous waste enters the facility as a continuous flow of material through a pipeline or other means (e.g., wastewater stream), the owner or operator shall:
 - i) Perform an initial waste determination of the waste stream before the first time any portion of the material in the waste stream is placed in a waste management unit subject to this Subpart, and thereafter update the information used for the waste determination at least once every 12 months following the date of the initial waste determination; and
 - ii) Perform a new waste determination whenever changes to the source generating the waste stream are reasonably likely to cause the average VO concentration of the hazardous waste to increase to a level that is equal to or greater than the applicable VO concentration limits specified in Section 725.983.
 - B) When the hazardous waste enters the facility in a container, the owner or operator shall perform a waste determination for the material held in each container.
- 4) Where the average VO concentration of the hazardous waste is determined by the owner or operator to be less than 100 ppmw, but because of normal operating variations in the source or process generating the hazardous waste the VO concentration of the hazardous waste may be equal to or

greater than 100 ppmw at any given time during the averaging period, the owner or operator shall prepare and enter in the facility operating record information that specifies the following:

- A) The maximum and minimum VO concentration values for the hazardous waste that occur during that averaging period used for the waste determination;
- B) The operating conditions or circumstances under which the VO concentration of the hazardous waste will be equal to or greater than 100 ppmw; and
- <u>C)</u> The information and calculations used by the owner or operator to determine the average VO concentration of the hazardous waste.
- 5) Procedure for using direct measurement to determine average VO concentration of a hazardous waste at the point of waste origination.
 - A) The owner or operator shall identify and record the point of waste origination for the hazardous waste.
 All waste samples used to determine the average VO concentration of the hazardous waste must be collected at this point.
 - B) The owner or operator shall designate and record the averaging period to be used for determining the average VO concentration for the hazardous waste. The averaging period must not exceed one year. An initial waste determination must be performed for each averaging period.
 - C) The owner or operator shall identify each discrete quantity of the material composing the hazardous waste represented by the averaging period designated in subsection (a)(5)(B) above. An example of a discrete quantity of material composing a hazardous waste generated as part of a continuous process is the quantity of material generated during a process operating mode defined by a specific set of operating conditions that are normal for the process. An example of a discrete quantity of material composing a hazardous waste generated as part of a batch process that is performed repeatedly but not necessarily continuously is the total quantity of material composing a single batch generated by the process. An example of a discrete quantity of material composing a hazardous waste delivered to a facility in a container is the total quantity of material held in the container.
 - <u>D)</u> The following procedure must be used measure the VO concentration for each discrete quantity of material identified in subsection (a)(5)(C) above:
 - i) A sufficient number of samples, but in no case fewer than four, must be collected to represent the organic composition for the entire discrete quantity of hazardous waste being tested. All of the samples must be collected within a 1-hour

period. Sufficient information must be prepared and recorded to document the waste quantity represented by the samples and, as applicable, the operating conditions for the source or process generating the hazardous waste represented by the samples.

- ii) Each sample must be collected in accordance with the requirements specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", incorporated by reference in Section 720.111.
- iii) Each collected sample must be prepared and analyzed in accordance with the requirements of Method 25D in 40 CFR 60, Appendix A, incorporated by reference in 35 Ill. Adm. Code 720.111.
- iv) The measured VO concentration for the discrete quantity of hazardous waste must be determined by using the results for all samples analyzed in accordance with subsection (a)(5)(D)(iii) above and the following equation:

$$C = \frac{1}{n} \times \sum_{i=1}^{n} C_i$$

- <u>C = Measured VO concentration of the</u> <u>discrete quantity of hazardous</u> <u>waste, in ppmw.</u>
- <u>i = Individual sample "i" of the</u> <u>hazardous waste collected in</u> <u>accordance with the requirements of</u> <u>SW-846.</u>
- <u>n = Total number of samples of hazardous</u> waste collected (at least 4) within <u>a 1-hour period.</u>
- <u>C</u>_i = <u>VO concentration measured by Method</u> <u>25D for sample "i", in ppmw.</u>
- E) The average VO concentration of the hazardous waste must be determined using the following procedure:
 - i) When the facility owner or operator is the generator of the hazardous waste, a sufficient number of VO concentration measurements for the hazardous waste must be performed in accordance with the requirements of subsection (a)(5)(D) above to represent the complete range of hazardous waste organic compositions and quantities that occur during the entire averaging period due to normal variations in the operating conditions for each process operating

- ii) When the facility owner or operator is not the generator of the hazardous waste, a sufficient number of VO concentration measurements for the hazardous waste must be performed in accordance with the requirements of subsection (a)(5)(D) above to represent the complete range of hazardous waste organic compositions and quantities that occur in the hazardous waste as received at the facility during the entire averaging period.
- iii) The average VO concentration of the hazardous waste at the point of waste origination must be calculated by using the results for all VO measurements performed in accordance with subsection (a)(5)(D) above and the following equation:

$$C_{ave} = \frac{1}{Q_T} \times \sum_{j=1}^{m} (Q_j \times C_j)$$

<u>Where:</u>

- <u>C.we = Average VO concentration of the hazardous waste at the point of waste origination, in ppmw.</u>
- j = Individual discrete quantity "j" of the hazardous waste for which a VO concentration measurement is determined in accordance with the requirements of subsection (a)(5)(D) above.
- m = Total number of VO concentration measurements determined in accordance with the requirements of subsection (a)(5)(D) above for the averaging period.
- Q_j = <u>Mass of the discrete quantity of the</u> <u>hazardous waste represented by C_j,</u> <u>in kq.</u>
- $Q_T = Total mass of the hazardous waste for the averaging period, in kg.$
- $\frac{C_{j}}{C_{j}} = \frac{\text{Measured VO concentration of}}{\text{discrete quantity "j" for the}}$ $\frac{hazardous waste determined in}{\text{accordance with the requirements of}}$ $\frac{hazardous}{hazardous}$
- 6) Procedure for using knowledge of the waste to determine the average VO concentration of a hazardous waste at the point of waste origination.

- A) The owner or operator shall identify and record the point of waste origination for the hazardous waste.
 All information used to determine the average VO concentration of the hazardous waste must be based on the hazardous waste composition at this point.
- B) The owner or operator shall designate and record the averaging period to be used for determining the average VO concentration for the hazardous waste. The averaging period must not exceed one year. An initial waste determination must be performed for each averaging period.
- C) The owner or operator shall prepare and record sufficient information that documents the average VO concentration for the hazardous waste. Information may be used that is prepared by either the facility owner or operator or by the generator of the hazardous waste. Examples of information that may be used as the basis for knowledge of the waste include: organic material balances for the source or process generating the waste; VO concentration measurements for the same type of waste performed in accordance with the procedure specified in subsection (a)(5)(D) above; previous individual organic constituent test data for the waste that are still applicable to the current waste management practices; documentation that the waste is generated by a process for which no organicscontaining materials are used; previous test data for other locations managing the same type of waste; or other knowledge based on manifests, shipping papers, or waste certification notices.
- D) If test data other than VO concentration measurements performed in accordance with the procedure specified in subsection (a)(5)(D) above are used as the basis for knowledge of the waste, then the owner or operator shall document the test method, sampling protocol, and the means by which sampling variability and analytical variability are accounted for in the determination of the average VO concentration. For example, an owner or operator may use individual organic constituent concentration test data that are validated in accordance with Method 301 in 40 CFR 63, Appendix A, incorporated by reference in 35 Ill. Adm. Code 720.111, as the basis for knowledge of the waste.
- b) Waste determination procedures for treated hazardous waste.
 - 1) An owner or operator shall perform the applicable waste determination for each treated hazardous waste placed in a waste management unit exempted under the provisions of Section 725.983(c)(2) from using air emission controls in accordance with standards specified in Section 725.985 through Section 725.988, as applicable to the waste management unit.
 - 2) The owner or operator shall perform a waste determination for each discrete quantity of treated hazardous waste as follows:
 - A) When the hazardous waste is treated by a continuous

process, the owner or operator shall:

- i) Perform an initial waste determination for the treated waste stream before the first time any portion of the material in the waste stream is placed in a waste management unit subject to this Subpart, and thereafter update the information used for the waste determination at least once every 12 months following the date of the initial waste determination; and
- ii) Perform a new waste determination whenever changes to the hazardous waste streams fed to the process are reasonably likely to cause the characteristics of the hazardous waste at the point of waste treatment to change to levels that fail to achieve the applicable conditions specified in Section 725.983(c)(2).
- B) When the hazardous waste is treated by a batch process that is performed repeatedly but not necessarily continuously, the owner or operator shall:
 - i) Perform an initial waste determination for the treated hazardous waste in one or more representative batches treated by the process, and thereafter update the information used for the waste determination at least once every 12 months following the date of the initial waste determination; and
 - ii) Perform a new waste determination whenever changes to the hazardous waste treated by the process are reasonably likely to cause the characteristics of the hazardous waste at the point of waste treatment to change to levels that fail to achieve the applicable conditions specified in Section 725.983(c)(2).
- 3) The owner or operator shall designate and record the specific provision in Section 725.983(c)(2) for which the waste determination is being performed. The waste determination for the treated hazardous waste must be performed using the applicable procedures specified in subsections (b)(4) through (b)(10) below.
- 4) Procedure to determine the average VO concentration of a hazardous waste at the point of waste treatment.
 - A) The owner or operator shall identify and record the point of waste treatment for the hazardous waste. All waste samples used to determine the average VO concentration of the hazardous waste must be collected at this point.
 - B) The owner or operator shall designate and record the averaging period to be used for determining the average VO concentration for the hazardous waste. The averaging period must not exceed one year. An initial waste determination must be performed for each averaging period.

- C) The owner or operator shall identify each discrete quantity of the material composing the hazardous waste represented by the averaging period designated in subsection (b)(4)(B) above.
- <u>D)</u> The following procedure shall be used measure the VO concentration for each discrete quantity of material identified in subsection (b)(4)(C) above:
 - i) A sufficient number of samples, but in no case fewer than four samples, must be collected to represent the organic composition for the entire discrete quantity of hazardous waste being tested. All of the samples must be collected within a 1-hour period. Sufficient information must be prepared and recorded to document the waste quantity represented by the samples and, as applicable, the operating conditions for the process treating the hazardous waste represented by the samples.
 - ii) Each sample must be collected in accordance with the requirements specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", incorporated by reference in 35 Ill. Adm. Code 720.111.
 - iii) Each collected sample must be prepared and analyzed in accordance with the requirements of Method 25D in 40 CFR 60, Appendix A, incorporated by reference in 35 Ill. Adm. Code 720.111.
 - iv) The measured VO concentration for the discrete quantity of hazardous waste must be determined by using the results for all samples analyzed in accordance with subsection (b)(4)(E)(iii) above and the following equation:

$$C = \frac{1}{n} \times \sum_{i=1}^{n} C_i$$

- <u>C = Measured VO concentration of the</u> <u>discrete quantity of hazardous</u> <u>waste, in ppmw.</u>
- i = Individual sample "i" of the hazardous waste collected in accordance with the requirements of SW-846.
- <u>n = Total number of samples of hazardous</u> waste collected (at least 4) within a 1-hour period.
- <u>C</u>_i = <u>VO concentration measured by Method</u> <u>25D for sample "i", in ppmw.</u>

- E) The average VO concentration of the hazardous waste at the point of waste treatment must be determined using the following procedure:
 - i) When the facility owner or operator is the generator of the hazardous waste, a sufficient number of VO concentration measurements for the hazardous waste must be performed in accordance with the requirements of subsection (b)(4)(D) above to represent the complete range of hazardous waste organic compositions and quantities treated by the process during the entire averaging period.
 - ii) The average VO concentration of the hazardous waste at the point of waste treatment must be calculated by using the results for all VO measurements performed in accordance with subsection (b)(4)(D) above and the following equation:

$$C_{ave} = \frac{1}{Q_T} \times \sum_{j=1}^{M} (Q_j \times C_j)$$

- <u>C_{ave} = Average VO concentration of the hazardous</u> waste at the point of waste origination, in ppmw.
- j = Individual discrete quantity "j" of the hazardous waste for which a VO concentration measurement is determined in accordance with the requirements of subsection (b)(4)(D) above.
- <u>m</u> = <u>Total number of VO concentration</u> <u>measurements determined in accordance with</u> <u>the requirements of subsection (b)(4)(D)</u> <u>above for the averaging period.</u>
- $Q_j = Mass of the discrete quantity of the hazardous waste represented by <math>C_j$, in kq.
- $Q_T = Total mass of the hazardous waste for the averaging period, in kg.$
- <u>C</u>_j = <u>Measured VO concentration of discrete</u> <u>quantity "j" for the hazardous waste</u> <u>determined in accordance with the</u> <u>requirements of subsection (b)(4)(D)</u> <u>above, in ppmw.</u>
- 5) Procedure to determine the exit concentration limit (C,) for a treated hazardous waste.
 - A) The point of waste origination for each hazardous waste treated by the process at the same time must be identified.

- B) If a single hazardous waste stream is identified in subsection (b)(5)(A) above, then the exit concentration limit (C,) must be 100 ppmw.
- C) If more than one hazardous waste stream is identified in subsection (b)(5)(A) above, then the VO concentration of each hazardous waste stream at the point of waste origination must be determined in accordance with the requirements of subsection (a) above. The exit concentration limit (C,) must be calculated by using the results determined for each individual hazardous waste stream and the following equation:

$$C_{t} = \frac{\sum_{x=1}^{m} (Q_{x} \times \overline{C}_{x}) + \sum_{y=1}^{n} (Q_{y} \times 100 ppmw)}{\sum_{x=1}^{m} Q_{x} + \sum_{y=1}^{n} Q_{y}}$$

- <u>C</u> = <u>Exit concentration limit for treated</u> <u>hazardous waste, in ppmw.</u>
- x = Individual hazardous waste stream "x" that has a VO concentration less than 100 ppmw at the point of waste origination, as determined in accordance with the requirements of Section 725.984(a).
- y = Individual hazardous waste stream "y" that has a VO concentration equal to or greater than 100 ppmw at the point of waste origination, as determined in accordance with the requirements of Section 725.984(a).
- <u>m = Total number of "x" hazardous waste</u> <u>streams treated by process.</u>
- <u>n = Total number of "y" hazardous waste</u> streams treated by process.
- <u>Q</u>_x = <u>Annual mass quantity of hazardous waste</u> <u>stream "x", in kg/yr.</u>
- Qy = Annual mass quantity of hazardous waste stream "y", in kg/yr.
- C_x = Average VO concentration of hazardous waste stream "x" at the point of waste origination, as determined in accordance with the requirements of Section 725.984(a), in ppmw.
- 6) Procedure to determine the organic reduction efficiency (R)

for a treated hazardous waste.

- A) The organic reduction efficiency for a treatment process must be determined based on results for a minimum of three consecutive runs. The sampling time for each run must be one hour.
- B) The point of each hazardous waste stream entering the process and each hazardous waste stream exiting the process that is to be included in the calculation of the organic reduction efficiency for the process must be identified.
- C) For each run, the following information must be determined for each hazardous waste stream identified in subsection (b)(6)(B) above, using the following procedures:
 - i) The mass quantity of each hazardous waste stream entering the process (Q_b) and the mass quantity of each hazardous waste stream exiting the process (Q_b) must be determined.
 - The VO concentration of each hazardous waste ii) stream entering the process (C,) during the run must be measured in accordance with the requirements of subsections (a)(5)(D)(i) through (a) (5) (D) (iv) below. The VO concentration of each hazardous waste stream exiting the process (C.) during the run must be determined in accordance with the requirements of subsection (b)(4)(D) below. Samples must be collected as follows: For a continuous process, the samples of the hazardous waste entering and samples of the hazardous waste exiting the process must be collected concurrently. For a batch process, the samples of the hazardous waste entering the process must be collected at the time that the hazardous waste is placed in the process. The samples of the hazardous waste exiting the process must be collected as soon as practicable after the time when the process stops operation or the final treatment cycle ends.
- D) The waste volatile organic mass flow entering the process (E_b) and the waste volatile organic mass flow exiting the process (E_b) must be calculated by using the results determined in accordance with subsection (b)(6)(C) above and the following equations:

$$E_{b} = \frac{1}{10^{6}} \sum_{j=1}^{m} (Q_{bj} \times C_{bj})$$

$$E_{a} = \frac{1}{10^{6}} \sum_{j=1}^{m} (Q_{aj} \times C_{aj})$$

<u>Where:</u>

- E. = Waste volatile organic mass flow exiting process, in kg/hr.
- <u>E_b = Waste volatile organic mass flow entering</u> process, in kg/hr.
- m = Total number of runs (at least 3)
- <u>j = Individual run "j"</u>
- Q_{ij} = <u>Mass quantity of hazardous waste entering</u> process during run "j", in kg/hr.
- <u>Q_i</u> = <u>Average mass quantity of waste exiting</u> process during run "j", in kg/hr.
- <u>C_{ij} = Measured VO concentration of hazardous</u> waste exiting process during run "j", as determined in accordance with the requirements of Section 725.984(b)(4)(D), in ppmw.
- <u>C_{bj} = Measured VO concentration of hazardous</u> waste entering process during run "j", as determined in accordance with the requirements of Section 725.984 (a)(5)(D)(i) through (a)(5)(D)(iv), in ppmw.
- E) The organic reduction efficiency of the process must be calculated by using the results determined in accordance with subsection (b)(6)(D) above and the following equation:

$$R = \frac{E_b - E_a}{E_b} \times 100\%$$

- <u>R = Organic reduction efficiency, percent.</u>
- $\frac{E_b}{E_b} = \frac{\text{Waste volatile organic mass flow entering}}{\text{process as determined in accordance with}}$ the requirements of subsection (b)(6)(D)
 above, in kg/hr.
- E = Waste volatile organic mass flow exiting process as determined in accordance with the requirements of subsection (b)(6)(D) above, in kg/hr.
- 7) Procedure to determine the organic biodegradation efficiency (R_{bio}) for a treated hazardous waste.
 - <u>A)</u> The fraction of organics biodegraded (F_{bio}) must be determined using the procedure specified in 40 CFR 63, Appendix C, incorporated by reference in 35 Ill. Adm.

Code 70.111.

<u>B)</u> <u>The organic biodegradation efficiency must be</u> <u>calculated by using the following equation:</u>

 $R_{bio} = F_{bio} \times 100$ %

<u>Where</u>

- $\frac{R_{bio}}{percent.} = \frac{Organic biodegradation efficiency, in}{percent.}$
- $\frac{F_{bio}}{F_{bio}} = \frac{Fraction of organic biodegraded as}{determined in accordance with the}$ $\frac{F_{bio}}{requirements of subsection (b)(7)(A)}$ $\frac{A}{A} = \frac{A}{A}$
- 8) Procedure to determine the required organic mass removal rate (RMR) for a treated hazardous waste.
 - A) The point of waste origination for each hazardous waste treated by the process at the same time must be identified.
 - B) For each hazardous waste stream identified in subsection (b)(8)(A) above, the VO concentration of the hazardous waste stream at the point of waste origination must be determined in accordance with the requirements of subsection (a) above.
 - C) For each individual hazardous waste stream that has a volatile organic concentration equal to or greater than 100 ppmw at the point of waste origination as determined in accordance with the requirements of subsection (b)(8)(B) above, the average volumetric flow rate of hazardous waste at the point of waste origination and the density of the hazardous waste stream must be determined.
 - D) The required organic mass removal rate for the hazardous waste must be calculated by using the results determined for each individual hazardous waste stream in accordance with the requirements of subsections (b)(8)(B) and (b)(8)(C) above and the following equation:

 $RMR = \sum_{y=1}^{n} \left[V_y \times k_y \times \frac{(\overline{C}_y - 100ppmw)}{10^6} \right]$

- RMR = Required organic mass removal rate, in kg/hr.
- y = Individual hazardous waste stream "y" that has a volatile organic concentration equal to or greater than 100 ppmw at the point of waste origination, as determined in accordance with

the requirements of Section 725.984(a).

- <u>n = Total number of "y" hazardous waste streams</u> treated by process.
- $\frac{V_y}{V_y} = \frac{\text{Average volumetric flow rate of hazardous waste}}{\frac{\text{stream "y" at the point of waste origination, in}}{\frac{\text{m}^3/\text{hr.}}{2}}$
- $k_y =$ Density of hazardous waste stream "y", in kg/m³
- <u>C_y = Average VO concentration of hazardous waste</u> <u>stream "y" at the point of waste origination as</u> <u>determined in accordance with the requirements</u> <u>of Section 725.984(a), in ppmw.</u>
- 9) Procedure to determine the actual organic mass removal rate (MR) for a treated hazardous waste.
 - A) The actual organic mass removal rate must be determined based on results for a minimum of three consecutive runs. The sampling time for each run must be one hour.
 - B) The waste volatile organic mass flow entering the process (E_b) and the waste volatile organic mass flow exiting the process (E_c) must be determined in accordance with the requirements of subsection (b)(6)(D) above.
 - C) The actual organic mass removal rate must be calculated by using the results determined in accordance with the requirements of subsection (b)(9)(B) above and the following equation:

 $MR = E_b - E_a$

<u>Where:</u>

- <u>MR = Actual organic mass removal rate, in kg/hr.</u>
- $E_{b} = Waste volatile organic mass flow entering$ process, as determined in accordance withthe requirements ofsubsection (b)(6)(D) above, in kg/hr.
- <u>E</u> = Waste volatile organic mass flow exiting process, as determined in accordance with the requirements of subsection (b)(6)(D) above, in kg/hr.
- 10) Procedure to determine the actual organic mass biodegradation rate (MR_{bio}) for a treated hazardous waste.
 - A) The actual organic mass biodegradation rate must be determined based on results for a minimum of three consecutive runs. The sampling time for each run must be one hour.

- B) The waste organic mass flow entering the process (E_{h}) must be determined in accordance with the requirements of subsection (b)(6)(D) above.
- <u>C)</u> The fraction of organic biodegraded (F_{bio}) must be determined using the procedure specified in 40 CFR 63, Appendix C, incorporated by reference in 35 Ill. Adm. Code 720.111.
- D) The actual organic mass biodegradation rate must be calculated by using the mass flow rates and fraction of organic biodegraded determined in accordance with the requirements of subsections (b)(10)(B) and (b)(10)(C) above and the following equation:

 $MR_{bio} = E_b \times F_{bio}$

<u>Where:</u>

- <u>MR_{bia} = Actual organic mass biodegradation</u> rate, in kg/hr.
- $\frac{E_{b}}{E_{b}} = \frac{Waste \text{ organic mass flow entering process,}}{as \text{ determined in accordance with the requirements of subsection (b)(6)(D)} \\ above, in kg/hr.$
- $\frac{F_{bia}}{F_{bia}} = \frac{Fraction of organic biodegraded, as}{determined in accordance with the}$ $\frac{F_{bia}}{requirements of subsection (b)(10)(C)}$ $\frac{F_{bia}}{above.}$
- c) Procedure to determine the maximum organic vapor pressure of a hazardous waste in a tank.
 - 1) An owner or operator shall determine the maximum organic vapor pressure for each hazardous waste placed in a tank using air emission controls in accordance with standards specified in Section 725.985(c).
 - 2) An owner or operator shall use either direct measurement, as specified in subsection (c)(3) above, or knowledge of the waste, as specified by subsection (c)(4) above, to determine the maximum organic vapor pressure that is representative of the hazardous waste composition stored or treated in the tank.
 - 3) To determine the maximum organic vapor pressure of the hazardous waste by direct measurement, the following procedure must be used:
 - A) Representative samples of the waste contained in the tank must be collected. Sampling must be conducted in accordance with the requirements specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", incorporated by reference in 35 Ill. Adm. Code 720.111.
 - B) Any of the following methods may be used to analyze the samples and compute the maximum organic vapor

181

pressure, as appropriate:

- <u>i)</u> <u>Method 25E in 40 CFR 60, Appendix A,</u> <u>incorporated by reference in 35 Ill. Adm. Code</u> 720.111;
- ii) Methods described in American Petroleum Institute Publication 2517, incorporated by reference in 35 Ill. Adm. Code 720.111;
- iii) Methods obtained from standard reference texts;
- iv) ASTM Method D 2879-92, incorporated by reference in 35 Ill. Adm. Code 720.111); or
- v) Any other method approved by the Agency for this use by the owner or operator.
- 4) To determine the maximum organic vapor pressure of the hazardous waste by knowledge, sufficient information must be prepared and recorded that documents the maximum organic vapor pressure of the hazardous waste in the tank. Examples of information that may be used include: documentation that the waste is generated by a process for which no organicscontaining materials are used or that the waste is generated by a process for which at other locations it previously has been determined by direct measurement that the waste maximum organic vapor pressure is less than the maximum vapor pressure limit for the appropriate design capacity category specified for the tank.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 725.985 Standards: Tanks

- a) This Section applies to owners and operators of tanks subject to this Subpart into which any hazardous waste is placed except for the following tanks:
 - 1) A tank in which all hazardous waste entering the tank meets the conditions specified in Section 725.983(c); or
 - 2) A tank used for biological treatment of hazardous waste in accordance with the requirements of Section 725.983(c)(2)(D).
- b) The owner or operator shall place the hazardous waste into one of the following tanks:
 - 1) A tank equipped with a cover (e.g., a fixed roof) that is vented through a closed-vent system to a control device in accordance with the requirements specified in subsection (d) below;
 - 2) A tank equipped with a fixed roof and internal floating roof in accordance with the requirements of Section 725.991;
 - 3) A tank equipped with an external floating roof in accordance with the requirements of Section 725.991; or
 - 4) A pressure tank that is designed to operate as a closed system such that the tank operates with no detectable

organic emissions at all times that hazardous waste is in the tank except as provided for in subsection (g) below.

- c) As an alternative to complying with subsection (b) above, an owner or operator may place hazardous waste in a tank equipped with a cover (e.g., a fixed roof) meeting the requirements specified in subsection (d)(1) below when the hazardous waste is determined to meet all of the following conditions:
 - 1) The hazardous waste is neither mixed, stirred, agitated, nor circulated within the tank by the owner or operator using a process that results in splashing, frothing, or visible turbulent flow on the waste surface during normal process operations;
 - 2) The hazardous waste in the tank is not heated by the owner or operator except during conditions requiring that the waste be heated to prevent the waste from freezing or to maintain adequate waste flow conditions for continuing normal process operations;
 - 3) The hazardous waste in the tank is not treated by the owner or operator using a waste stabilization process or a process that produces an exothermic reaction; and
 - 4) The maximum organic vapor pressure of the hazardous waste in the tank as determined using the procedure specified in Section 725.984(c) is less than the following applicable value:
 - A) If the tank design capacity is equal to or greater than 151 m³ (5333 ft³ or 39,887 gal), then the maximum organic vapor pressure must be less than 5.2 kPa (0.75 psia or 39 mm Hg);
 - B) If the tank design capacity is equal to or greater than 75 m³ but less than 151 m³ (5333 ft³ or 39,887 gal), then the maximum organic vapor pressure must be less than 27.6 kPa (4.0 psia or 207 mm Hg); or
 - C) If the tank design capacity is less than 75 m³ (2649 ft³ or 19,810 gal), then the maximum organic vapor pressure must be less than 76.6 kPa (11.1 psia or 574 mm Hg).
- d) To comply with subsection (b)(1) above, the owner or operator shall design, install, operate, and maintain a cover that vents the organic vapors emitted from hazardous waste in the tank through a closed-vent system connected to a control device.
 - 1) The cover must be designed and operated to meet the following requirements:
 - A) The cover and all cover openings (e.g., access hatches, sampling ports, and gauge wells) must be designed to operate with no detectable organic emissions when all cover openings are secured in a closed, sealed position.
 - B) Each cover opening must be secured in a closed, sealed position (e.g., covered by a gasketed lid or cap) at all times that hazardous waste is in the tank except

as provided for in subsection (f) below.

- 2) The closed-vent system and control device must be designed and operated in accordance with the requirements of Section 725.988.
- e) The owner and operator shall install, operate, and maintain enclosed pipes or other closed systems for the transfer of hazardous waste as described in subsection (e)(1) or (e)(2) below.

BOARD NOTE: U.S. EPA considers a drain system that meets the requirements of 40 CFR 61.346(a)(1) or (b)(1) through (b)(3) to be a "closed-system". The Board intends that this meaning be included in the use of that term for the purposes of this Subpart.

- 1) Transfer all hazardous waste to the tank from another tank, surface impoundment, or container subject to this Subpart, except for those hazardous wastes that meet the conditions specified in Section 725.983(c); and
- 2) Transfer all hazardous waste from the tank to another tank, surface impoundment, or container subject to this Subpart, except for those hazardous wastes that meet the conditions specified in Section 725.983(c).
- f) Each cover opening must be secured in a closed, sealed position (e.g., covered by a gasketed lid) at all times that hazardous waste is in the tank except when it is necessary to use the cover opening to:
 - 1) Add, remove, inspect, or sample the material in the tank;
 - 2) Inspect, maintain, repair, or replace equipment located inside the tank; or
 - 3) Vent gases or vapors from the tank to a closed-vent system connected to a control device that is designed and operated in accordance with the requirements of Section 725.988.
- g) One or more safety devices that vent directly to the atmosphere may be used on the tank, cover, closed-vent system, or control device provided each safety device meets all of the following conditions:
 - 1) The safety device is not used for planned or routine venting of organic vapors from the tank or the closed-vent system connected to a control device; and
 - 2) The safety device remains in a closed, sealed position at all times except when an unplanned event requires that the device open for the purpose of preventing physical damage or permanent deformation of the tank, cover, closed-vent system, or control device in accordance with good engineering and safety practices for handling flammable, combustible, explosive, or other hazardous materials. An example of an unplanned event is a sudden power outage.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 725.986 Standards: Surface Impoundments

a) This Section applies to owners and operators of surface

impoundments subject to this Subpart into which any hazardous waste is placed except for the following surface impoundments:

- 1) A surface impoundment in which all hazardous waste entering the surface impoundment meets the conditions specified in Section 725.983(c); or
- 2) A surface impoundment used for biological treatment of hazardous waste in accordance with the requirements of Section 725.983(c)(2)(iv).
- b) The owner or operator shall place the hazardous waste into a surface impoundment equipped with a cover (e.g., an air-supported structure or a rigid cover) that is vented through a closed-vent system to a control device meeting the requirements specified in subsection (d) below.
- c) As an alternative to complying with subsection (b) above, an owner or operator may place hazardous waste in a surface impoundment equipped with a floating membrane cover meeting the requirements specified in subsection (e) below when the hazardous waste is determined to meet all of the following conditions:
 - 1) The hazardous waste is neither mixed, stirred, agitated, nor circulated within the surface impoundment by the owner or operator using a process that results in splashing, frothing, or visible turbulent flow on the waste surface during normal process operations;
 - 2) The hazardous waste in the surface impoundment is not heated by the owner or operator; and
 - 3) The hazardous waste in the surface impoundment is not treated by the owner or operator using a waste stabilization process or a process that produces an exothermic reaction.
- d) To comply with subsection (b)(1) above, the owner or operator shall design, install, operate, and maintain a cover that vents the organic vapors emitted from hazardous waste in the surface impoundment through a closed-vent system connected to a control device.
 - 1) The cover must be designed, installed, operated, and maintained to meet the following requirements:
 - A) The cover and all cover openings (e.g., access hatches, sampling ports, and gauge wells) must be designed to operate with no detectable organic emissions when all cover openings are secured in a closed, sealed position.
 - B) Each cover opening must be secured in the closed, sealed position (e.g., covered by a gasketed lid or cap) at all times that hazardous waste is in the surface impoundment, except as provided for in subsection (g) below.
 - C) The closed-vent system and control device must be designed and operated in accordance with Section 725.988.
- e) To comply with subsection (c) above, the owner or operator shall

design, install, operate, and maintain a floating membrane cover that meets all of the following requirements:

- 1) The floating membrane cover must be designed, installed, and operated such that at all times when hazardous waste is in the surface impoundment, the entire surface area of the hazardous waste is enclosed by the cover, and any air spaces underneath the cover are not vented to the atmosphere except during conditions specified in subsection (h) below.
- 2) The floating membrane cover and all cover openings (e.g., access hatches, sampling ports, and gauge wells) must be designed to operate with no detectable organic emissions when all cover openings are secured in a closed, sealed position.
- 3) Each cover opening must be secured in a closed, sealed position (e.g., covered by a gasketed lid or cap) at all times that hazardous waste is in the surface impoundment except as provided for in subsections (g)(1) through (g)(3) below.
- 4) The synthetic membrane material used for the floating membrane cover must be either:
 - A) High density polyethylene with a thickness no less than 2.5 mm; or
 - <u>B)</u> <u>A material or a composite of different materials</u> <u>determined to have the following properties:</u>
 - i) Organic permeability properties that are equivalent to those of the material specified in subsection (e)(4)(A) above; and
 - ii) Chemical and physical properties that maintain the material integrity for as long as the cover is in use. Factors that must be considered in selecting the material include: the effects of contact with the waste managed in the impoundment, weather exposure, and cover installation and operation practices.
- f) The owner or operator shall install, operate, and maintain enclosed pipes or other closed systems for the transfer of hazardous waste as described in subsection (f)(1) or (f)(2) below.

BOARD NOTE: U.S. EPA considers a drain system that meets the requirements of 40 CFR 61.346(a)(1) or (b)(1) through (b)(3) to be a "closed-system". The Board intends that this meaning be included in the use of that term for the purposes of this Subpart.

- 1) Transfer all hazardous waste to the surface impoundment from another tank, surface impoundment, or container subject to this Subpart, except for those hazardous wastes that meet the conditions specified in Section 725.983(c); and
- 2) Transfer all hazardous waste from the surface impoundment to another tank, surface impoundment, or container subject to this Subpart, except for those hazardous wastes that meet the conditions specified in Section 725.983(c).

- <u>g</u>) Each cover opening must be secured in the closed, sealed position (e.g., covered by a gasketed lid or cap) at all times that hazardous waste is in the surface impoundment except when it is necessary to use the cover opening to:
 - 1) Add, remove, inspect, or sample the material in the surface impoundment;
 - 2) Inspect, maintain, repair, or replace equipment located underneath the cover;
 - 3) Remove treatment residues from the surface impoundment in accordance with the requirements of 35 Ill. Adm. Code 728.104; or
 - 4) Vent gases or vapors from the surface impoundment to a closed-vent system connected to a control device that is designed and operated in accordance with the requirements of Section 725.988.
- h) One or more safety devices that vent directly to the atmosphere may be installed on the cover, closed-vent system, or control device provided each device meets all of the following conditions:
 - 1) The safety device is not used for planned or routine venting of organic vapors from the surface impoundment or the closed-vent system connected to a control device; and
 - 2) The safety device remains in a closed, sealed position at all times except when an unplanned event requires that the device open for the purpose of preventing physical damage or permanent deformation of the cover, closed-vent system, or control device in accordance with good engineering and safety practices for handling flammable, combustible, explosive, or other hazardous materials. An example of an unplanned event is a sudden power outage.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 725.987 Standards: Containers

- a) This Section applies to the owners and operators of containers having design capacities greater than 0.1 m³ (3.5 ft³ or 26.4 gal) subject to this Subpart into which any hazardous waste is placed, except for a container in which all hazardous waste entering the container meets the conditions specified in Section 725.983(c).
- b) An owner or operator shall manage hazardous waste in containers using the following procedures:
 - 1) The owner or operator shall place the hazardous waste into one of the following containers, except when a container is used for hazardous waste treatment as required by subsection (b)(2) below:
 - A) A container that is equipped with a cover that operates with no detectable organic emissions when all container openings (e.g., lids, bungs, hatches, and sampling ports) are secured in a closed, sealed position. The owner or operator shall determine that a container operates with no detectable emissions by testing each opening on the container for leaks in

accordance with Method 21 in 40 CFR 60, Appendix A, incorporated by reference in 35 Ill. Adm. Code 720.111, the first time any portion of the hazardous waste is placed into the container. If a leak is detected and cannot be repaired immediately, the hazardous waste must be removed from the container and the container not used to meet the requirements of this subsection until the leak is repaired and the container is retested.

- B) A container having a design capacity less than or equal to 0.46 m³ (16.2 ft³ or 121.5 gal) that is equipped with a cover and complies with all applicable U.S. Department of Transportation regulations on packaging hazardous waste for transport under 49 CFR 178, incorporated by reference in 35 Ill. Adm. Code 720.111.
 - i) A container that is managed in accordance with the requirements of 49 CFR 178 for the purpose of complying with this Subpart is not subject to any exceptions to the 49 CFR 178 regulations, except as noted in subsection (b)(1)(B)(ii) above.
 - ii) A lab pack that is managed in accordance with the requirements of 49 CFR 178 for the purpose of complying with this Subpart may comply with the exceptions for combination packagings specified in 49 CFR 173.12(b).
- A container that is attached to or forms a part of any C) truck, trailer, or railcar and that has been demonstrated within the preceding 12 months to be organic vapor tight when all container openings are in a closed, sealed position (e.g., the container hatches or lids are gasketed and latched). For the purpose of meeting the requirements of this subsection, a container is organic vapor tight if the container sustains a pressure change of not more than 0.75 kPa (0.11 psig or 5.6 mm Hq) within 5 minutes after it is pressurized to a minimum of 4.5 kPa (0.65 psig or 33.7 mm Hg). This condition is to be demonstrated using the pressure test specified in Method 27 of 40 CFR 60, Appendix A, incorporated by reference in 35 Ill. Adm. Code 720.111, and a pressure measurement device that has a precision of ± 2.5 mm water and that is capable of measuring above the pressure at which the container is to be tested for vapor tightness.
- 2) An owner or operator treating hazardous waste in a container by either a waste stabilization process, any process that requires the addition of heat to the waste, or any process that produces an exothermic reaction must meet the following requirements:
 - A) Whenever it is necessary for the container to be open during the treatment process, the container must be located inside an enclosure that is vented through a closed-vent system to a control device.
 - B) The enclosure must be a structure that is designed and

operated in accordance with the following requirements:

- i) The enclosure must be a structure that is designed and operated with sufficient airflow into the structure to capture the organic vapors emitted from the hazardous waste in the container and vent the vapors through the closed-vent system to the control device.
- The enclosure may have permanent or temporary ii) openings to allow worker access, passage of containers through the enclosure by conveyor or other mechanical means, entry of permanent mechanical or electrical equipment, or to direct airflow into the enclosure. The pressure drop across each opening in the enclosure must be maintained at a pressure below atmospheric pressure such that whenever an open container is placed inside the enclosure no organic vapors released from the container exit the enclosure through the opening. The owner or operator shall determine that an enclosure achieves this condition by measuring the pressure drop across each opening in the enclosure. If the pressure within the enclosure is equal to or greater than atmospheric pressure then the enclosure does not meet the requirements of this Section.
- <u>C)</u> The closed-vent system and control device must be designed and operated in accordance with the requirements of Section 725.988.
- 3) An owner or operator transferring hazardous waste into a container having a design capacity greater than 0.46 m³ (16.2 ft³ or 121.5 gal) shall meet the following requirements:
 - A) Hazardous waste transfer by pumping must be performed using a conveyance system that uses a tube (e.g., pipe, hose) to add the waste into the container.
 During transfer of the waste into the container, the cover must remain in place and all container openings must be maintained in a closed, sealed position except for those openings through which the tube enters the container and as provided for in subsection (c) below. The tube must be positioned in a manner such that either the:
 - i) <u>Tube outlet continuously remains submerged below</u> <u>the waste surface at all times waste is flowing</u> <u>through the tube;</u>
 - ii) Lower bottom edge of the tube outlet is located at a distance no greater than two inside diameters of the tube or 15.25 cm (0.50 ft or 6.0 in), whichever distance is greater, from the bottom of the container at all times waste is flowing through the tube; or
 - <u>iii)</u> Tube is connected to a permanent port mounted on the bottom of the container so that the lower

- B) Hazardous waste transferred by a means other than pumping must be performed such that during transfer of the waste into the container, the cover remains in place and all container openings are maintained in a closed, sealed position except for those openings through which the hazardous waste is added and as provided for in subsection (d) below.
- <u>c)</u> Each container opening must be maintained in a closed, sealed position (e.g., covered by a gasketed lid) at all times that hazardous waste is in the container except when it is necessary to use the opening to:
 - 1) Add, remove, inspect, or sample the material in the container;
 - 2) Inspect, maintain, repair, or replace equipment located inside the container; or
 - 3) Vent gases or vapors from a cover located over or enclosing an open container to a closed-vent system connected to a control device that is designed and operated in accordance with the requirements of Section 725.988.
- d) One or more safety devices that vent directly to the atmosphere may be used on the container, cover, enclosure, closed-vent system, or control device provided each device meets all of the following conditions:
 - 1) The safety device is not used for planned or routine venting of organic vapors from the container, cover, enclosure, or closed-vent system connected to a control device; and
 - 2) The safety device remains in a closed, sealed position at all times except when an unplanned event requires that the device open for the purpose of preventing physical damage or permanent deformation of the container, cover, enclosure, closed-vent system, or control device in accordance with good engineering and safety practices for handling flammable, combustible, explosive, or other hazardous materials. An example of an unplanned event is a sudden power outage.

(Source: Added at 19 Ill. Reg. _____, effective _____)

Section 725.988 Standards: Closed-vent Systems and Control Devices

- a) This Section applies to each closed-vent system and control device installed and operated by the owner or operator to control air emissions in accordance with standards of this Subpart.
- b) The closed-vent system must meet the following requirements:
 - 1) The closed-vent system must route the gases, vapors, and fumes emitted from the hazardous waste in the waste management unit to a control device that meets the requirements specified in subsection (c) below.

- 2) The closed-vent system must be designed and operated in accordance with the requirements specified in Section 725.933(j).
- 3) If the closed-vent system contains one or more bypass devices that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device, the owner or operator shall meet the following requirements:
 - A) For each bypass device except as provided for in subsection (b)(3)(B) below, the owner or operator shall either:
 - i) Install, calibrate, maintain, and operate a flow indicator at the inlet to the bypass device that indicates at least once every 15 minutes whether gas, vapor, or fume flow is present in the bypass device; or
 - ii) Secure the valve installed at the inlet to the bypass device in the closed position using a car-seal or a lock-and-key type configuration. The owner or operator shall visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in the closed position.
 - B) Low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and safety devices are not subject to the requirements of subsection (b)(3)(A) above.
- c) The control device must meet the following requirements:
 - 1) The control device must be one of the following devices:
 - A) A control device designed and operated to reduce the total organic content of the inlet vapor stream vented to the control device by at least 95 percent by weight;
 - B) An enclosed combustion device designed and operated in accordance with the requirements of Section 725.933(c); or
 - <u>C)</u> <u>A flare designed and operated in accordance with the</u> requirements of Section 725.933(d).
 - 2) The control device must be operating at all times when gases, vapors, or fumes are vented from the waste management unit through the closed-vent system to the control device.
 - 3) The owner or operator using a carbon adsorption system to comply with subsection (c)(1) above shall operate and maintain the control device in accordance with the following requirements:
 - A) Following the initial startup of the control device, all activated carbon in the control device must be replaced with fresh carbon on a regular basis in accordance with the requirements of Section 725.933(g) or 725.933(h).

- <u>B)</u> <u>All carbon removed from the control device must be</u> managed in accordance with the requirements of Section 725.933(1).
- 4) An owner or operator using a control device other than a thermal vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system to comply with subsection (c)(1) above shall operate and maintain the control device in accordance with the requirements of Section 725.933(i).
- 5) The owner or operator shall demonstrate that a control device achieves the performance requirements of subsection (c)(1) above as follows:
 - A) An owner or operator shall demonstrate using either a performance test, as specified in subsection (c)(5)(C) below, or a design analysis, as specified in subsection (c)(5)(D) below, the performance of each control device except for the following:
 - <u>i) A flare;</u>
 - <u>ii) A boiler or process heater with a design heat</u> <u>input capacity of 44 megawatts or greater;</u>
 - iii) A boiler or process heater into which the vent stream is introduced with the primary fuel;
 - iv) A boiler or process heater burning hazardous waste for which the owner or operator has been issued a final permit 35 Ill. Adm. Code 703 and 705 and that is designed and operated in accordance with the requirements of 35 Ill. Adm. Code 726.Subpart H; or
 - v) A boiler or process heater burning hazardous waste for which the owner or operator has certified compliance with the interim status requirements of 35 Ill. Adm. Code 726.Subpart H.
 - B) An owner or operator shall demonstrate the performance of each flare in accordance with the requirements specified in Section 725.933(e).
 - C) For a performance test conducted to meet the requirements of subsection (c)(5)(A) above, the owner or operator shall use the test methods and procedures specified in Section 725.934(c)(1) through (c)(4).
 - D) For a design analysis conducted to meet the requirements of subsection (c)(5)(A) above, the design analysis must meet the requirements specified in Section 725.935(b)(4)(C).
 - E) The owner or operator shall demonstrate that a carbon adsorption system achieves the performance requirements of subsection (c)(1) above based on the total quantity of organics vented to the atmosphere from all carbon adsorption system equipment that is used for organic adsorption, organic desorption or carbon regeneration, organic recovery, and carbon

192

<u>disposal.</u>

6) If the owner or operator and the Agency do not agree on a demonstration of control device performance using a design analysis, then the disagreement must be resolved using the results of a performance test performed by the owner or operator in accordance with the requirements of subsection (c)(5)(C) above. The Agency may choose to have an authorized representative observe the performance test.

(Source: Added at 19 Ill. Reg. _____, effective _____)

Section 725.989 Inspection and Monitoring Requirements

- a) This Section applies to an owner or operator using air emission controls in accordance with the requirements of Sections 725.985 through 725.988.
- b) Each cover used in accordance with requirements of Sections 725.985 through 725.987 must be visually inspected and monitored for detectable organic emissions by the owner or operator using the procedure specified in subsection (f) below, except as follows:
 - 1) An owner or operator is exempted from performing the cover inspection and monitoring requirements specified in subsection (f) below for the following tank covers:
 - <u>A)</u> <u>A tank internal floating roof that is inspected and</u> <u>monitored in accordance with the requirements of</u> <u>Section 725.991; or</u>
 - <u>B)</u> <u>A tank external floating roof that is inspected and</u> monitored in accordance with the requirements of Section 725.991.
 - 2) If a tank is buried partially or entirely underground, an owner or operator is required to perform the cover inspection and monitoring requirements specified in subsection (f) below only for those portions of the tank cover and those connections to the tank cover or tank body (e.g., fill ports, access hatches, gauge wells, etc.) that extend to or above the ground surface and can be opened to the atmosphere.
 - 3) An owner or operator is exempted from performing the cover inspection and monitoring requirements specified in subsection (f) below for a container that meets all requirements specified in either Section 725.987(b)(1)(B) or (b)(1)(C).
 - 4) An owner or operator is exempted from performing the cover inspection and monitoring requirements specified in subsection (f) below for an enclosure used to control air emissions from containers in accordance with the requirements of Section 725.987(b)(2).
- <u>c)</u> Each closed-vent system used in accordance with the requirements of Section 725.988 must be inspected and monitored by the owner or operator in accordance with the procedure specified in Section 725.933(j).

- <u>d)</u> <u>Each control device used in accordance with the requirements of</u> <u>Section 725.988 must be inspected and monitored by the owner or</u> <u>operator in accordance with the procedure specified in Section</u> <u>725.933(f).</u>
- e) The owner or operator shall develop and implement a written plan and schedule to perform all inspection and monitoring requirements of this section. The owner or operator shall incorporate this plan and schedule into the facility inspection plan required under 35_Ill. Adm. Code 725.115.
- <u>f)</u> <u>Inspection and monitoring of a cover in accordance with the</u> requirements of subsection (b) above must be performed as follows:
 - 1) The cover and all cover openings must be initially visually inspected and monitored for detectable organic emissions on or before the date that the tank, surface impoundment, or container using the cover becomes subject to the provisions of this Subpart and at other times as requested by the Agency.
 - 2) At least once every 6 months following the initial visual inspection and monitoring for detectable organic emissions required under subsection (f)(1) above, the owner and operator shall visually inspect and monitor the cover and each cover opening except for following cover openings:
 - A) A cover opening that has continuously remained in a closed, sealed position for the entire period since the last time the cover opening was visually inspected and monitored for detectable emissions;
 - B) A cover opening that is designated as unsafe to inspect and monitor in accordance with subsection (f)(5) below;
 - C) A cover opening on a cover installed and placed in operation before December 6, 1994 that is designated as difficult to inspect and monitor in accordance with subsection (f)(6) below.
 - 3) To visually inspect a cover, the owner or operator shall view the entire cover surface and each cover opening in a closed, sealed position for evidence of any defect that may affect the ability of the cover or cover opening to continue to operate with no detectable organic emissions. A visible hole, gap, tear, or split in the cover surface or a cover opening is defined as a leak that must be repaired in accordance with subsection (f)(7) below.
 - 4) To monitor a cover for detectable organic emissions, the owner or operator shall use the following procedure:
 - A) Method 21 in 40 CFR 60, appendix A, incorporated by reference in 35 Ill. Adm. Code 720.111, to test each cover seal and cover connection for detectable organic emissions. Seals on floating membrane covers must be monitored around the entire perimeter of the cover at locations spaced no greater than 3 meters apart.
 - B) For all cover connections and seals except for the seals around a rotating shaft that passes through a

cover opening, if the monitoring instrument indicates detectable organic emissions (i.e., an instrument concentration reading greater than 500 ppmv plus the background level), then a leak is detected. Each detected leak must be repaired in accordance with subsection (f)(7) below.

- C) For the seals around a rotating shaft that passes through a cover opening, if the monitoring instrument indicates a concentration reading greater than 10,000 ppmv, then a leak is detected. Each detected leak must be repaired in accordance with subsection (f)(7) below.
- 5) An owner or operator may designate a cover as an unsafe to inspect and monitor cover if all of the following conditions are met:
 - A) The owner or operator determines that inspection or monitoring of the cover would expose a worker to dangerous, hazardous, or other unsafe conditions.
 - B) The owner or operator develops and implements a written plan and schedule to inspect the cover using the procedure specified in subsection (f)(3) above and monitor the cover using the procedure specified in subsection (f)(4) below as frequently as practicable during those times when a worker can safely access the cover.
- 6) An owner or operator may designate a cover installed and placed in operation before December 6, 1994, as a difficult to inspect and monitor cover if all of the following conditions are met:
 - A) The owner or operator determines that inspection or monitoring the cover requires elevating a worker to a height greater than 2 meters (6.6 ft) above a support surface; and
 - B) The owner and operator develops and implements a written plan and schedule to inspect the cover using the procedure specified in subsection (f)(3) above, and to monitor the cover using the procedure specified in subsection (f)(4) above at least once per calendar year.
- 7) When a leak is detected by either of the methods specified in subsection (f)(3) or (f)(4) above, the owner or operator shall repair the leak in the following manner:
 - A) The owner or operator shall make a first attempt at repairing the leak no later than 5 calendar days after the leak is detected. Repair of the leak must be completed as soon as practicable, but no later than 15 calendar days after the leak is detected. If repair of the leak cannot be completed within the 15-day period, except as provided in subsection (f)(7)(B) below, then the owner or operator shall not add hazardous waste to the tank, surface impoundment, or container on which the cover is installed until the repair of the leak is completed.

- B) Repair of a leak detected on a cover installed on a tank or surface impoundment may be delayed beyond 15 calendar days if the owner or operator determines that both of the following conditions occur:
 - i) <u>Repair of the leak requires first emptying the</u> contents of the tank or surface impoundment; and
 - ii) Temporary removal of the tank or surface impoundment from service will result in the unscheduled cessation of production from the process unit or operation of the waste management unit that is generating the hazardous waste managed in the tank or surface impoundment.
- C) Repair of a leak determined by the owner or operator to meet the conditions specified in subsection (f)(7)(B) above must be performed at the next time the process, system, or waste management unit that is generating the hazardous waste managed in the tank or surface impoundment stops operation for any reason.

(Source: Added at 19 Ill. Reg. _____, effective _____)

Section 725.990 Recordkeeping Requirements

- a) Each owner or operator of a facility subject to requirements in this Subpart shall record and maintain the following information as applicable:
 - 1) Documentation for each cover installed on a tank in accordance with the requirements of Section 725.985(b)(2) or 725.985(b)(3) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by the owner or operator that the cover meets the applicable design specifications as listed in Section 725.991(c).
 - 2) Documentation for each floating membrane cover installed on a surface impoundment in accordance with the requirements of Section 725.986(c) that includes information prepared by the owner or operator or provided by the cover manufacturer or vendor describing the cover design, and certification by the owner or operator that the cover meets the specifications listed in Section 725.986(e).
 - 3) Documentation for each enclosure used to control air emissions from containers in accordance with the requirements of Section 725.987(b)(2)(A) that includes information prepared by the owner or operator or provided by the manufacturer or vendor describing the enclosure design, and certification by the owner or operator that the enclosure meets the specifications listed in Section 725.987(b)(2)(B).
 - 4) Documentation for each closed-vent system and control device installed in accordance with the requirements of Section 725.988 that includes:
 - A) <u>Certification that is signed and dated by the owner or</u> <u>operator stating that the control device is designed</u>

to operate at the performance level documented by a design analysis, as specified in subsection (a)(4)(B) below, or by performance tests, as specified in subsection (a)(4)(C) below, when the tank, surface impoundment, or container is or would be operating at capacity or the highest level reasonably expected to occur.

- B) If a design analysis is used, then design documentation as specified in Section 725.935(b)(4). The documentation must include information prepared by the owner or operator or provided by the control device manufacturer or vendor that describes the control device design in accordance with Section 725.935(b)(4)(C) and certification by the owner or operator that the control equipment meets the applicable specifications.
- C) If performance tests are used, then a performance test plan as specified in Section 725.935(b)(3) and all test results.
- $\frac{D}{25.935(c)(2)}$
- 5) Records for all Method 27 tests performed by the owner or operator for each container used to meet the requirements of Section 725.987(b)(1)(C).
- 6) Records for all visual inspections conducted in accordance with the requirements of Section 725.989.
- 7) Records for all monitoring for detectable organic emissions conducted in accordance with the requirements of Section 725.989.
- 8) Records of the date of each attempt to repair a leak, repair methods applied, and the date of successful repair.
- 9) Records for all continuous monitoring conducted in accordance with the requirements of Section 725.989.
- 10) Records of the management of carbon removed from a carbon adsorption system conducted in accordance with Section 725.988(c)(3)(B).
- 11) Records for all inspections of each cover installed on a tank in accordance with the requirements of Section 725.985(b)(2) or Section 725.985(b)(3) that includes information as listed in Section 725.991(c).
- b) An owner or operator electing to use air emission controls for a tank in accordance with the conditions specified in Section 725.985(c) shall record the following information:
 - 1) The date and time each waste sample is collected for direct measurement of maximum organic vapor pressure in accordance with Section 725.984(c).
 - 2) The results of each determination for the maximum organic vapor pressure of the waste in the tank performed in accordance with Section 725.984(c).

- 3) The records specifying the tank dimensions and design capacity.
- c) An owner or operator electing to use air emission controls for a tank in accordance with the requirements of Section 725.991 shall record the information required by Section 725.991(c).
- d) An owner or operator electing not to use air emission controls for a particular tank, surface impoundment, or container subject to this Subpart in accordance with the conditions specified in Section 725.983(c) shall record the information used by the owner or operator for each waste determination (e.g., test results, measurements, calculations, and other documentation) in the facility operating log. If analysis results for waste samples are used for the waste determination, then the owner or operator shall record the date, time, and location that each waste sample is collected in accordance with applicable requirements of Section 725.984.
- <u>e)</u> An owner or operator electing to comply with requirements in accordance with Section 725.983(c)(2)(F) or 725.983(c)(2)(E) shall record the identification number for the incinerator, boiler, or industrial furnace in which the hazardous waste is treated.
- f) An owner or operator designating a cover as unsafe to inspect and monitor pursuant to Section 725.989(f)(5) or difficult to inspect and monitor pursuant to Section 725.989(f)(6) shall record in a log that is kept in the facility operating record the following information:
 - 1) A list of identification numbers for tanks with covers that are designated as unsafe to inspect and monitor in accordance with the requirements of Section 725.989(f)(5), an explanation for each cover stating why the cover is unsafe to inspect and monitor, and the plan and schedule for inspecting and monitoring each cover.
 - 2) A list of identification numbers for tanks with covers that are designated as difficult to inspect and monitor in accordance with the requirements of Section 725.989(f)(6), an explanation for each cover stating why the cover is difficult to inspect and monitor, and the plan and schedule for inspecting and monitoring each cover.
- <u>as required by subsections (a) through (f) above, except</u> <u>as required in subsections (a)(1) through (a)(4) above, must be</u> <u>maintained in the operating record for a minimum of 3 years. All</u> <u>records required by subsections (a)(1) through (a)(4) above must</u> <u>be maintained in the operating record until the air emission</u> <u>control equipment is replaced or otherwise no longer in service.</u>
- h) The owner or operator of a facility that is subject to this Subpart and to the control device standards in 40 CFR 60, Subpart VV, or 40 CFR 61, Subpart V, incorporated by reference in 35 Ill. Adm. Code 270.111, may elect to demonstrate compliance with the applicable Sections of this Subpart by documentation either pursuant to this Subpart, or pursuant to the provisions of 40 CFR 60, Subpart VV or 40 CFR 61, Subpart V, to the extent that the documentation required by 40 CFR 60 or 61 duplicates the documentation required by this Section.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 725.991 Alternative Tank Emission Control Requirements

- <u>a)</u> This Section applies to owners and operators of tanks electing to comply with Section 725.985(b)(2) or (b)(3).
 - 1) The owner or operator electing to comply with Section 725.985(b)(2) shall design, install, operate, and maintain a fixed roof and internal floating roof that meet the following requirements.
 - A) The fixed roof must comply with the requirements of Section 725.985(d)(1). The internal floating roof must rest or float on the waste surface (but not necessarily in complete contact with it) inside a tank that has a fixed roof. The internal floating roof must be floating on the waste surface at all times, except during initial fill and during those intervals when the tank is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling must be continuous and must be accomplished as rapidly as possible.
 - B) Each internal floating roof must be equipped with one of the following closure devices between the wall of the tank and the edge of the internal floating roof:
 - i) A foam- or liquid-filled seal mounted in contact with the waste (liquid-mounted seal). A liquidmounted seal means a foam- or liquid-filled seal mounted in contact with the waste between the wall of the tank and the floating roof continuously around the circumference of the tank.
 - ii) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the tank and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
 - iii) A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the tank by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
 - C) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the waste surface.
 - D) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid that is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. The cover or lid must be equipped with a

gasket. Covers on each access hatch and automatic gauge float well must be bolted, except when they are in use.

- E) Automatic bleeder vents must be equipped with a gasket and are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.
- F) Rim space vents must be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
- <u>G)</u> Each penetration of the internal floating roof for the purpose of sampling must be a sample well. The sample well must have a slit fabric cover that covers at least 90 percent of the opening.
- H) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof must have a flexible fabric sleeve seal or a gasketed sliding cover.
- I) Each penetration of the internal floating roof that allows for passage of a ladder must have a gasketed sliding cover.
- 2) The owner or operator electing to comply with Section 725.985(b)(3) shall design, install, operate, and maintain an external floating roof that meets the following requirements:
 - A) Each external floating roof must be equipped with a closure device between the wall of the tank and the roof edge. The closure device is to consist of two seals, one above the other. The lower seal is referred to as the primary seal, and the upper seal is referred to as the secondary seal.
 - i) The primary seal must be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in subsection (b)(2)(D) below, the seal must completely cover the annular space between the edge of the floating roof and tank wall.
 - ii) The secondary seal must completely cover the annular space between the external floating roof and the wall of the tank in a continuous fashion except as allowed in subsection (b)(2)(D) below.
 - B) Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof must provide a projection below the waste surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, each opening in the roof is to be equipped with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. Automatic bleeder vents are to be closed at all times when the roof is floating, except when the roof is being

- floated off or is being landed on the roof leg supports. Rim vents are to be set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Automatic bleeder vents and rim space vents are to be gasketed. Each emergency roof drain is to be provided with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening.
- C) The roof must be floating on the waste at all times (i.e., off the roof leg supports), except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports must be continuous and must be accomplished as rapidly as possible.
- 3) The owner or operator may elect to comply with Section 725.985(b)(2) or (b)(3) using an alternative means of emission limitation for which U.S. EPA has published a Federal Register notice in accordance with the requirements of 40 CFR 60.114b permitting its use as an alternative means for the purpose of compliance with 40 CFR 60.112b.
- b) Monitoring and inspection of the control equipment described in subsection (a) above must be conducted as follows:
 - 1) After installation, owners and operators of internal floating roofs shall:
 - A) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the tank with waste. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric, or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the tank.
 - For tanks equipped with a liquid-mounted or mechanical B) shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the waste inside the tank, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the tank from service within 45 days. If a failure that is detected during inspections required in this subsection cannot be repaired within 45 days and if the tank cannot be emptied within 45 days, the Agency may grant the owner or operator a provisional variance pursuant to Section 35(b) of the Act that extends this time for up to 30 days. Such a request for an extension must comply with 35 Ill. Adm. Code 180, and it must document that alternate capacity is unavailable and specify a schedule of actions the owner or operator will take that will assure that the control equipment will be

repaired or the tank will be emptied as soon as possible.

- <u>C)</u> For tanks equipped with a double-seal system as specified in subsection (a)(1)(A)(ii) above:
 - i) Visually inspect the tank, as specified in subsection (b)(1)(D) below, at least every 5 years; or
 - ii) Visually inspect the tank as specified in subsection (b)(1)(B) above.
- Visually inspect the internal floating roof, the D) primary seal, the secondary seal (if one is in service), gaskets, slotted membranes, and sleeve seals (if any) each time the tank is emptied and degassed. If the internal floating roof has defects; the primary seal has holes, tears, or other openings in the seal or the seal fabric; the secondary seal has holes, tears, or other openings in the seal or the seal fabric; the gaskets no longer close off the waste surfaces from the atmosphere; or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary, so that none of the conditions specified in this subsection exist before refilling the tank with waste. In no event may inspections conducted in accordance with this provision occur at intervals greater than 10 years, in the case of tanks conducting the annual visual inspection as specified in subsection (b)(1)(B) above, or at intervals no greater than 5 years, in the case of tanks specified in subsection (b)(1)(C) above.
- Notify the Agency in writing at least 30 days prior to <u>E)</u> the filling or refilling of each tank for which an inspection is required by subsections (b)(1)(A) and (b)(1)(D) above, to afford the Agency the opportunity to have an observer present. If the inspection required by subsection (b)(1)(D) above is not planned and the owner or operator could not have known about the inspection 30 days in advance of refilling the tank, the owner or operator shall notify the Agency at least 7 days prior to the refilling of the tank. Notification must be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification, including the written documentation, may be made in writing and sent by express mail so that it is received by the Agency at least 7 days prior to the refilling.
- 2) After installation, the owner or operator of an external floating roof shall:
 - A) Determine the gap areas and maximum gap widths between the primary seal and the wall of the tank and between the secondary seal and the wall of the tank according to the following frequency:
 - i) <u>Measurements of gaps between the tank wall and</u> the primary seal (seal gaps) must be performed

during the hydrostatic testing of the tank or within 60 days of the initial fill with waste and at least once every five years thereafter.

- ii) Measurements of gaps between the tank wall and the secondary seal must be performed within 60 days of the initial fill with waste and at least once per year thereafter.
- iii) If any tank ceases to hold waste for a period of one year or more, subsequent introduction of waste into the tank must be considered an initial fill for the purposes of subsections (b)(2)(A)(i) and (b)(2)(A)(ii) above.
- B) Determine the gap widths and areas in the primary and secondary seals individually by the following procedures:
 - i) Measure seal gaps, if any, at one or more floating roof levels when the roof is floating off the roof leg supports.
 - ii) Measure seal gaps around the entire circumference of the tank in each place where a 0.32-cm diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the tank and measure the circumferential distance of each such location.
 - iii) Determine the total surface area of each gap described in subsection (b)(2)(B)(ii) above by using probes of various widths to measure accurately the actual distance from the tank wall to the seal and multiplying each such width by its respective circumferential distance.
- C) Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in subsection (b)(2)(D) below.
- D) Make necessary repairs or empty the tank within 45 days of identification in any inspection for seals not meeting the following requirements:
 - i) The accumulated area of gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal must not exceed 212 cm² per meter (10.0 in² per foot) of tank diameter, and the width of any portion of any gap must not exceed 3.81 cm (1.50 in). One end of the mechanical shoe is to extend into the waste contained in the tank, and the other end is to extend a minimum vertical distance of 61 cm (24.0 in) above the waste surface. There are to be no holes, tears, or other openings in the shoe, seal fabric, or seal envelope.
 - ii) The secondary seal is to meet the following

requirements: The secondary seal is to be installed above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in subsection (b)(2)(B)(iii) above. The accumulated area of gaps between the tank wall and the secondary seal must not exceed 21.2 cm² per meter (1.00 in² per foot) of tank diameter, and the width of any portion of any gap must not exceed 1.27 cm (0.500 in). There are to be no holes, tears, or other openings in the seal or seal fabric.

- E) If a failure that is detected during inspections required in subsection (b) (2) (A) above cannot be repaired within 45 days and if the tank cannot be emptied within 45 days, the Agency may grant the owner or operator a provisional variance pursuant to Section 35(b) of the Act that extends this time for up to 30 days. Such a request for an extension must comply with 35 Ill. Adm. Code 180, and it must include a demonstration of the unavailability of alternate capacity and a specification of a schedule that will assure that the control equipment will be repaired or the tank will be emptied as soon as possible.
- F) Notify the Agency 30 days in advance of any gap measurements required by subsection (b)(2)(A) above, to afford the Agency the opportunity to have an observer present.
- <u>G)</u> Visually inspect the external floating roof, the primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.
 - i) If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator shall repair the items as necessary so that none of the conditions specified in this subsection exist before filling or refilling the tank with waste.
 - ii) For all the inspections required by this subsection, the owner or operator shall notify the Agency in writing at least 30 days prior to the filling or refilling of each tank to afford the Agency the opportunity to inspect the tank prior to refilling. If the inspection required by this subsection is not planned and the owner or operator could not have known about the inspection 30 days in advance of refilling the tank, the owner or operator shall notify the Agency at least seven days prior to the refilling of the tank. Notification must be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification, including the written documentation, may be made in writing and sent

by express mail so that it is received by the Agency at least seven days prior to the refilling.

- <u>c)</u> Owners and operators that elect to install and operate the control equipment in subsection (a) above shall include the following information in the operating record in accordance with the requirements of Section 725.990(a)(1) and (a)(11):
 - 1) Internal floating roof.
 - A) Documentation that describes the control equipment design and certifies that the control equipment meets the specifications of subsections (a)(1) and (b)(1) above.
 - B) Records of each inspection performed as required by subsections (b)(1)(A) through (b)(1)(D) above. Each record must identify the tank on which the inspection was performed and must contain the date the tank was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).
 - C) If any of the conditions described in subsection (b)(1)(B) above are detected during the annual visual inspection required by subsection (b)(1)(B) above, the records must identify the tank, the nature of the defects, and the date the tank was emptied or the nature of and date the repair was made.
 - D) After each inspection required by subsection (b)(1)(C) above that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in subsection (b)(1)(B) above, the records must identify the tank and the reason it did not meet the specifications of subsection (a)(1) or (b)(1)(C) above and describe each repair made.
 - 2) External floating roof.
 - A) Documentation that describes the control equipment design and certifies that the control equipment meets the specifications of subsections (a)(2) and (b)(2)(B) through (b)(2)(D) above.
 - B) Records of each gap measurement performed as required by subsection (b)(2) above. Each record must identify the tank in which the measurement was performed, the date of measurement, the raw data obtained in the measurement, and the calculations described in subsections (b)(2)(B) and (b)(2)(C) above.
 - C) Records for each seal gap measurement that detects gaps exceeding the limitations specified by subsection (b)(2)(D) above that identifies the tank, the date the tank was emptied or the repairs made, and the nature of the repair.

(Source: Added at 19 Ill. Reg. ____, effective _____)

SUBPART DD: CONTAINMENT BUILDINGS

Section 725.1102 Closure and pPost eClosure-eCare

- a) At closure of a containment building, the owner or operator must remove or decontaminate all waste residues, contaminated containment system components (liners, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and manage them as hazardous waste unless 35 Ill. Adm. Code 721.103(ee) applies. The closure plan, closure activities, cost estimates for closure, and financial responsibility for containment buildings must meet all of the requirements specified in 725.Subparts G and H.
- b) If, after removing or decontaminating all residues and making all reasonable efforts to effect removal or decontamination of contaminated components, subsoils, structures, and equipment as required in subsection (a) above, the owner or operator finds that not all contaminated subsoils can be practicably removed or decontaminated, he must close the facility and perform post-closure care in accordance with the closure and post-closure requirements that apply to landfills (35 Ill. Adm. Code 725.310). In addition, for the purposes of closure, post-closure, and financial responsibility, such a containment building is then considered to be a landfill, and the owner or operator must meet all the requirements for landfills specified in 725.Subparts G and H.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 726

STANDARDS FOR THE MANAGEMENT OF SPECIFIC HAZARDOUS WASTE AND SPECIFIC TYPES OF HAZARDOUS WASTE MANAGEMENT FACILITIES

SUBPART C: RECYCLABLE MATERIALS USED IN A MANNER CONSTITUTING DISPOSAL

726.120 Applicability

Section

- 726.121 Standards applicable to generators and transporters of materials used in a manner that constitutes disposal
- 726.122 Standards applicable to storers, who are not the ultimate users, of materials that are to be used in a manner that constitutes disposal
- 726.123 Standards <u>aApplicable</u> to <u>wUsers</u> of <u>mMaterials</u> that are <u>wUsed</u> in a <u>mManner</u> that <u>eConstitutes</u> <u>dD</u>isposal

SUBPART D: HAZARDOUS WASTE BURNED FOR ENERGY RECOVERY

Section 726.130 Applicabili

- 726.130 Applicability (Repealed) 726.131 Prohibitions (Repealed)
- 726.132 Standards applicable to generators of hazardous waste fuel
- (Repealed)
- 726.133 Standards applicable to transporters of hazardous waste fuel (Repealed)
- 726.134 Standards applicable to marketers of hazardous waste fuel (Repealed)

726.135Standards applicable to burners of hazardous waste fuel (Repealed)726.136Conditional exemption for spent materials and by-products
exhibiting a characteristic of hazardous waste (Repealed)

SUBPART E: USED OIL BURNED FOR ENERGY RECOVERY (Repealed)

Section			
726.140	Applicability	(Repealed)	
726.141	Prohibitions	(Repealed)	

- 726.142 Standards applicable to generators of used oil burned for energy recovery (Repealed)
- 726.143 Standards applicable to marketers of used oil burned for energy
- recovery (Repealed)
- 726.144 Standards applicable to burners of used oil burned for energy recovery (Repealed)

SUBPART F: RECYCLABLE MATERIALS UTILIZED FOR PRECIOUS METAL RECOVERY

Section

Section

726.170 Applicability and requirements

SUBPART G: SPENT LEAD-ACID BATTERIES BEING RECLAIMED

726.180 Applicability and requirements

SUBPART H: HAZARDOUS WASTE BURNED IN BOILERS AND INDUSTRIAL FURNACES

		AND INDUSTRIAL FURNACES
Section		
726.200		cability
726.201	Manag	ement prior to Burning
726.202	Permi	t standards for Burners
726.203	Inter	im Status Standards for Burners
726.204	Stand	ards to Control Organic Emissions
726.205	Stand	ards to control PM
726.206	Stand	ards to Control Metals Emissions
726.207	Stand	ards to control HCl and Chlorine Gas Emissions
726.208	Small	quantity On-site Burner Exemption
726.209	Low r	isk waste Exemption
726.210	Waive	r of DRE trial burn for Boilers
726.211	Stand	ards for direct Transfer
726.212	Regul	ation of Residues
726.219	Exten	sions of Time
726.Appendi	хА	Tier I and Tier II Feed Rate and Emissions Screening Limits
		for Metals
726.Appendi		Tier I Feed Rate Screening Limits for Total Chlorine
726.Appendi	хС	Tier II Emission Rate Screening Limits for Free Chlorine and
		Hydrogen Chloride
726.Appendi	x D	Reference Air Concentrations
726.Appendi	хE	Risk Specific Doses
726.Appendi		Stack Plume Rise
726.Appendi		Health-Based Limits for Exclusion of Waste-Derived Residues
726.Appendi	хН	Potential PICs for Determination of Exclusion of Waste-
		Derived Residues
726.Appendi	хI	Methods Manual for Compliance with BIF Regulations
726.Appendi	хЈ	Guideline on Air Quality Models
726.Appendi	хK	Lead-Bearing Materials That May be Processed in Exempt Lead
		Smelters
726.Appendi	хL	Nickel or Chromium-Bearing Materials that may be Processed
		in Exempt Nickel-Chromium Recovery Furnaces
726.Appendi	<u>x M</u>	<u>Mercury-Bearing Wastes That May Be Processed in Exempt</u>
		Mercury Recovery Units
726.Table A		Exempt Quantities for Small Quantity Burner Exemption

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SOURCE: Adopted in R85-22 at 10 Ill. Reg. 1162, effective January 2, 1986; amended in R86-1 at 10 Ill. Reg. 14156, effective August 12, 1986; amended in R87-26 at 12 Ill. Reg. 2900, effective January 15, 1988; amended in R89-1 at 13 Ill. Reg. 18606, effective November 13, 1989; amended in R90-2 at 14 Ill. Reg. 14533, effective August 22, 1990; amended in R90-11 at 15 Ill. Reg. 9727, effective June 17, 1991; amended in R91-13 at 16 Ill. Reg. 9858, effective June 9, 1992; amended in R92-10 at 17 Ill. Reg. 5865, effective March 26, 1993; amended in R93-4 at 17 Ill. Reg. 20904, effective November 22, 1993; amended in R94-7 at 18 Ill. Reg. 12500, effective July 29, 1994; amended in R95-6 at 19 Ill. Reg. _____, effective

SUBPART C: RECYCLABLE MATERIALS USED IN A MANNER CONSTITUTING DISPOSAL

Section 726.120 Applicability

- a) The regulations of this Subpart apply to recyclable materials that are applied to or placed on the land7:
 - 1) Without mixing with any other substance(s); or
 - 2) After mixing or combination with any other substance(s). These materials will be referred to throughout this Subpart as "materials used in a manner that constitutes disposal."
- b) Products produced for the general public's use that are used in a manner that constitutes disposal and that contain recyclable materials are not presently subject to regulation under this Subpart if the recyclable materials have undergone a chemical reaction in the course of producing the products so as to become inseparable by physical means and if such products meet the applicable treatment standards in 35 Ill. Adm. Code 728.Subpart D (or applicable prohibition levels in 35 Ill. Adm. Code 728.132 or 728.139, where no treatment standards have been established) for each recycable material (i.e. hazardous waste) that they contain. Commercial fertilizers that are produced for the general public's use that contain recyclable materials also are not presently subject to regulation, provided they meet the same treatment standards or prohibitions levels for each recyclable material they However, zinc-containing fertilizers using hazardous contain. waste K061 that are produced for the general public's use are not presently subject to regulation under this Subpart.
- c) Anti-skid and deicing uses in a manner constituting disposal of slags that are generated from high temperature metals recovery (HTMR) processing of hazardous wastes K061, K062, and F006 are not covered by the exemption in subsection (b) above, and such uses of these materials remain subject to regulation.

(Source: Amended at 19 Ill. Reg. , effective _____)

Section 726.123 Standards <u>Applicable</u> to <u>u</u>users of mMaterials that are <u>uused</u> in a <u>mManner</u> that <u>econstitutes</u> <u>Apisposal</u>

 a) Owners or operators of facilities that use recyclable materials in a manner that constitutes disposal are regulated under all applicable provisions of <u>35 Ill. Adm. Code 702, 703, and 705;</u> 35 Ill. Adm. Code 724<u>.Subparts A through N; and 35 Ill. Adm. Code</u> 725.Subparts A through N_{T_i} 35 Ill. Adm. Code 728; and 35 Ill. Adm. Code 702, 703 and 705, and the notification requirement under Section 3010 of the Resource Conservation and Recovery Act. (These requirements do not apply to products which that contain these recyclable materials under the provisions of Section 726.120(b)).

b) The use of waste or used oil or other material τ which that is contaminated with dioxin or any other hazardous waste (other than a waste identified solely on the basis of ignitability) τ for dust suppression or road treatment is prohibited. \uparrow

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBPART H: HAZARDOUS WASTE BURNED IN BOILERS AND INDUSTRIAL FURNACES

Section 726.200 Applicability

- a) The regulations of this Subpart apply to hazardous waste burned or processed in a boiler or industrial furnace (BIF) (as defined in 35 Ill. Adm. Code 720.110) irrespective of the purpose of burning or processing, except as provided by subsections (b), (c), (d), and (f) τ below. In this Subpart, the term "burn" means burning for energy recovery or destruction τ or processing for materials recovery or as an ingredient. The emissions standards of Sections 726.204, 726.205, 726.206, and 726.207 apply to facilities operating under interim status or under a RCRA permit, as specified in Sections 726.202 and 726.203.
- b) The following hazardous wastes and facilities are not subject to regulation under this Subpart:
 - Used oil burned for energy recovery that is also a hazardous waste solely because it exhibits a characteristic of hazardous waste identified in 35 Ill. Adm. Code 721.Subpart C. Such used oil is subject to regulation under 35 Ill. Adm. Code 739, rather than this Subpart;
 - 2) Gas recovered from hazardous or solid waste landfills, when such gas is burned for energy recovery;
 - 3) Hazardous wastes that are exempt from regulation under 35 Ill. Adm. Code 721.104 and 721.106(a)(3)(<u>#D</u>) through (a)(3)(<u>HF</u>)_T and hazardous wastes that are subject to the special requirements for conditionally exempt small quantity generators under 35 Ill. Adm. Code 721.105; and
 - 4) Coke ovens, if the only hazardous waste burned is U.S. EPA Hhazardous W_W aste Nno. K087 $_{\tau}$ decanter tank tar sludge from coking operations.
- c) Owners and operators of smelting, melting, and refining furnaces (including pyrometallurgical devices such as cupolas, sintering machines, roasters and foundry furnaces, but not including cement kilns, aggregate kilns, or halogen acid furnaces burning hazardous waste) that process hazardous waste solely for metal recovery are conditionally exempt from regulation under this Subpart, except for Sections 726.201 and 726.212.
 - 1) To be exempt from Sections 726.202 through 726.211, an owner

or operator of a metal recovery furnace <u>or mercury recovery</u> <u>furnace</u> shall comply with the following requirements, except that an owner or operator of a lead or a nickel-chromium recovery furnace_{τ} or a metal recovery furnace that burns baghouse bags used to capture metallic dust emitted by steel manufacturing, shall comply with the requirements of subsection (c)(3)_{τ} below:

- A) Provide a one-time written notice to the Agency indicating the following:
 - i) The owner or operator claims exemption under this subsection;
 - ii) The hazardous waste is burned solely for metal recovery consistent with the provisions of subsection (c)(2)_T below;
 - iii) The hazardous waste contains recoverable levels of metals; and
 - iv) The owner or operator will comply with the sampling and analysis and recordkeeping requirements of this subsection;
- B) Sample and analyze the hazardous waste and other feedstocks as necessary to comply with the requirements of this subsection under procedures specified by Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, incorporated by reference in 35 Ill. Adm. Code 720.111, or alternative methods that meet or exceed the SW-846 method performance capabilities. If SW-846 does not prescribe a method for a particular determination, the owner or operator shall use the best available method; and
- C) Maintain at the facility for at least three years records to document compliance with the provisions of this subsection including limits on levels of toxic organic constituents and Btu value of the waste, and levels of recoverable metals in the hazardous waste compared to normal nonhazardous waste feedstocks.
- 2) A hazardous waste meeting either of the following criteria is not processed solely for metal recovery:
 - A) The hazardous waste has a total concentration of organic compounds listed in 35 Ill. Adm. Code 721.Appendix H_T exceeding 500 ppm by weight, as fired, and so is considered to be burned for destruction. The concentration of organic compounds in a waste asgenerated may be reduced to the 500 ppm limit by bona fide treatment that removes or destroys organic constituents. Blending for dilution to meet the 500 ppm limit is prohibited, and documentation that the waste has not been impermissibly diluted must be retained in the records required by subsection (c)(1)(C)_T above; or
 - B) The hazardous waste has a heating value of 5,000 Btu/lb or more, as-fired, and is so considered to be

burned as fuel. The heating value of a waste asgenerated may be reduced to below the 5,000 Btu/lb limit by bona fide treatment that removes or destroys organic constituents. Blending for dilution to meet the 5,000 Btu/lb limit is prohibited and documentation that the waste has not been impermissibly diluted must be retained in the records required by subsection (c)(1)(C)_T above.

- 3) To be exempt from Sections 726.202 through 726.211, an owner or operator of a lead, or nickel-chromium, or mercury recovery furnace, or a metal recovery furnace that burns a baghouse bags used to capture metallic dusts emitted by steel manufacturing must provide a one-time written notice to the Agency identifying each hazardous waste burned and specifying whether the owner or operator claims an exemption for each waste under this subsection or subsection (c)(1), above. The owner or operator shall comply with the requirements of subsection (c)(1), above, for those wastes claimed to be exempt under that subsection and shall comply with the following requirements below for those wastes claimed to be exempt under this subsection.
 - A) The hazardous wastes listed in <u>Sections 726.Appendices</u> $K_{, \text{ and } L_{, \text{ and } M}$ and baghouse bags used to capture metallic dusts emitted by steel manufacturing are exempt from the requirements of subsection (c)(1)_T above, provided that:
 - i) A waste listed in Section 726.Appendix K must contain recoverable levels of lead-; Aa waste listed in Section 726.Appendix L must contain recoverable levels of nickel or chromium, a waste listed in Section 726.Appendix M must contain recoverable levels of mercury and contain less that 500 ppm of 35 Ill. Adm. Code 261.Appendix H organic constituents, and baghouse bags used to capture metallic dusts emitted by steel manufacturing must contain recoverable levels of metal;-and
 - ii) The waste does not exhibit the Toxicity Characteristic of 35 Ill. Adm. Code 721.124 for an organic constituent; and
 - iii) The waste is not a hazardous waste listed in 35 Ill. Adm. Code 721.Subpart D because it is listed for an organic constituent, as identified in 35 Ill. Adm. Code 721.Appendix G; and
 - iv) The owner or operator certifies in the one-time notice that hazardous waste is burned under the provisions of subsection $(c)(3)_{T}$ above_T and that sampling and analysis will be conducted or other information will be obtained as necessary to ensure continued compliance with these requirements. Sampling and analysis must be conducted according to subsection $(C)(1)(B)_{T}$ above, and records to document compliance with subsection $(c)(3)_{T}$ above_T must be kept for at least three years.

- B) The Agency may decide, on a case-by-case basis, that the toxic organic constituents in a material listed in Section 726.Appendix K, or Section 726.Appendix L, or 726.Appendix M that contains a total concentration of more than 500 ppm toxic organic compounds listed in 35 Ill. Adm. Code 721.Appendix H may pose a hazard to human health and the environment when burned in a metal recovery furnace exempt from the requirements of this Subpart. In that situationUnder these circumstances, after adequate notice and opportunity for comment, the metal recovery furnace will become subject to the requirements of this Subpart when burning that material. In making the hazard determination, the Agency shall consider the following factors:
 - i) The concentration and toxicity of organic constituents in the material; and
 - ii) The level of destruction of toxic organic constituents provided by the furnace; and
 - iii) Whether the acceptable ambient levels established in <u>Section 726.Appendiceesx</u> D or E will be exceeded for any toxic organic compound that may be emitted based on dispersion modeling to predict the maximum annual average off-site ground level concentration.
- d) The standards for direct transfer operations under Section 726.211 apply only to facilities subject to the permit standards of Section 726.202 or the interim status standards of Section 726.203.
- e) The management standards for residues under Section 726.212 apply to any BIF burning hazardous waste.
- f) Owners and operators of smelting, melting, and refining furnaces (including pyrometallurgical devices such as cupolas, sintering machines, roasters, and foundry furnaces) that process hazardous waste for recovery of economically significant amounts of the precious metals gold, silver, platinum, palladium, iridium, osmium, rhodium, er-ruthenium, or any combination of these metals, are conditionally exempt from reg ulation under this Subpart, except for Section 726.212. To be exempt from Sections 726.202 through 726.211, an owner or operator shall:
 - Provide a one-time written notice to the Agency indicating the following:
 - A) The owner or operator claims exemption under this Section + .
 - B) The hazardous waste is burned for legitimate recovery of precious metal+L and
 - C) The owner or operator will comply with the sampling and analysis and recordkeeping requirements of this Section-<u>;</u>
 - 2) Sample and analyze the hazardous waste, as necessary, to document that the waste is burned for recovery of

economically significant amounts of precious metal, using procedures specified by Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, incorporated by reference in 35 Ill. Adm. Code 720.111, or alternative methods that meet or exceed the SW-846 method performance capabilities. If SW-846 does not prescribe a method for a particular determination, the owner or operator shall use the best available method; and

- 3) Maintain, at the facility for at least three years, records to document that all hazardous wastes burned are burned for recovery of economically significant amounts of precious metal.
- g) Abbreviations and definitions. The following definitions and abbreviations are used in this Subpart:

"APCS" means air pollution control system.

"BIF" means boiler or industrial furnace.

"Carcinogenic metals" means arsenic, beryllium, cadmium, and chromium.

"CO" means carbon monoxide.

"Continuous monitor" is a monitor which that continuously samples the regulated parameter without interruption, and that evaluates the detector response at least once each 15 seconds, and that computes and records the average value at least every 60 seconds.

"DRE" means destruction or removal efficiency.

"cu m" or "m³" means cubic meters.

"E" means "ten to the <u>power</u>". For example, "XE-Y" means "X times ten to the -Y power".

"Feed rates" are measured as specified in Section 726.202(e)(6).

"Good engineering practice stack height" is as defined by 40 CFR 51.100(ii), incorporated by reference in 35 Ill. Adm. Code 720.111.

"HC" means hydrocarbon.

"HCl" means hydrogen chloride gas.

"Hourly rolling average" means the arithmetic mean of the 60 most recent <u>lone</u>-minute average values recorded by the continuous monitoring system.

"K" means Kelvin.

"kVA" means kilovolt amperes.

"MEI" means maximum exposed individual.

"MEI location" means the point with the maximum annual average off-site (unless on-site is required) ground level

concentration.

"Noncarcinogenic metals" means antimony, barium, lead, mercury, thallium, and silver.

"One hour block average" means the arithmetic mean of the one minute averages recorded during the 60-minute period beginning at one minute after the beginning of preceding clock hour

"PIC" means product of incomplete combustion.

"PM" means particulate matter.

"POHC" means principal organic hazardous constituent.

"ppmv" means parts per million by volume.

"QA/QC" means quality assurance and quality control.

"Rolling average for the selected averaging period" means the arithmetic mean of one hour block averages for the averaging period.

"RAC" means reference air concentration, the acceptable ambient level for the noncarcinogenic metals for purposes of this Subpart. RACs are specified in Section 726.Appendix D.

"RSD" means risk-specific dose, the acceptable ambient level for the carcinogenic metals for purposes of this Subpart. RSDs are specified in Section 726.Appendix E.

"SSU" means "Saybolt Seconds Universal", a unit of viscosity measured by ASTM D_88-87 or D_2161-87, incorporated by reference in 35 Ill. Adm. Code 720.111.

"TCLP test" means the toxicity characteristic leaching procedure of 35 Ill. Adm. Code 721.124.

"TESH" means terrain-adjusted effective stack height (in meters).

"Tier I". See Section 726.206(b).

"Tier II". See Section 726.206(c).

"Tier III". See Section 726.206(d).

"Toxicity equivalence" is estimated, pursuant to Section 726.204(e), using "Procedures for Estimating the Toxicity Equivalence of Chlorinated Dibenzo-p-Dioxin and Dibenzofuran Congeners" in Section 726.Appendix I ("eye").

"uug" means microgram.

(Source: Amended at 19 Ill. Reg. ____, effective _____)
Section 726.Appendix A Tier I and Tier II Feed Rate and Emissions Screening
Limits for Metals

I-A Tier I and Tier II Feed Rate and Emissions Screening Limits for Noncarcinogenic Metals for Facilities in Noncomplex Terrain [Values for urban areas]

TESH (m)	Antimony (g/hr)	Barium (g/hr)	Lead (g/hr)	Mercury (g/hr)	Silver (g/hr)	Thallium (g/hr)
4	6 <u>0</u> . E+01	1+0 <u>000.</u> E+0	1-8 <u>.5+01</u>	6-0 <u>.</u> =+01	6+0 <u>0.</u> E+02	6-0 <u>.</u> =+01
6	6 . 8 <u>.</u> E+01	1-1 <u>000.</u> E+0	2+0 <u>.8+01</u>	6+8 <u>.</u> E+01	6-8 <u>0.5+02</u>	6+8 <u>.</u>
8	7 . 6 <u>.</u> ±+01	1-3 <u>000.</u> =+0	2 ₊ 3 <u>.ธ+01</u>	7+6 <u>.</u> E+01	7 . 6 <u>0.</u> 5+02	7 . 6 <u>.</u> E+01
10	8-6 <u>.</u> =+01	+ 1-4 <u>000.</u> E+0 4	2 . 6 <u>.</u> €+01	8-6 <u>.</u> E+01	8-6 <u>0.</u> E+02	8 . 6 <u>.</u> E+01
12	9 . 6 <u>.8+01</u>	1+7 <u>000.</u> E+0	3-0 <u>.</u> =+01	9-6 <u>.</u> E+01	9 . 6 <u>0.</u> 5+02	9-6 <u>.</u> E+01
14	1+1 <u>0.</u> E+02	1-8 <u>000.</u> E+0	3-4 <u>. E+01</u>	1+1 <u>0.</u> E+02	1+1 <u>00.</u> E+03	1-1 <u>0.</u> E+02
16	1-3 <u>0.</u> 5+02	2-1 <u>000.</u> E+0	3-6 <u>.5+01</u>	1-3 <u>0.</u> E+02	1-3 <u>00.</u> E+03	1-3 <u>0.8+02</u>
18	1-4 <u>0.</u> E+02	2-4 <u>000.</u> E+0	4-3 <u>.5+01</u>	1-4 <u>0.5+02</u>	1-4 <u>00.</u> E+03	1-4 <u>0.E+02</u>
20	1+6 <u>0.</u> E+02	2-7 <u>000.</u> =+0	4-6 <u>-8+01</u>	1-6 <u>0.</u> E+02	1-6 <u>00.</u> E+03	1+6 <u>0.8+02</u>
22	1 . 8 <u>0.</u> E+02	3+0 <u>000.</u> E+0	5-4 <u>.8+01</u>	1+8 <u>0.</u> E+02	1+8 <u>00.</u> E+03	1+8 <u>0.</u> E+02
24	2 ₊ 0 <u>0,</u> £+02	4 3+4 <u>000,</u> ₽+0	6+0 <u>.</u> =+01	2 . 0 <u>0.</u> ₽+02	2+0 <u>00.</u> E+03	2₊0 <u>0.</u> ₽+02
26	2-3 <u>0.</u> 5+02		6-8 <u>-8+01</u>	2 ₊ 3 <u>0.⊑+02</u>	2-3 <u>00.5+03</u>	2-3 <u>0.</u> E+02
28	2-6 <u>0.</u> E+02	4-3 <u>000.</u> =+0	7 ₊ 8 <u>₊±+01</u>	2 ₊ 6 <u>0,</u> ±+02	2-6 <u>00.</u> E+03	2 . -6 <u>0.</u> E+0 2
30	3+0 <u>0.</u> E+02	5-0 <u>000.</u> E+0	9-0 <u>.5+01</u>	3 . 0 <u>0.</u> E+02	3+0 <u>00.</u> E+03	3+0 <u>0.</u> E+02
35	4-0 <u>0.</u> E+02	6-6 <u>000.</u> E+0	1+1 <u>0.</u> E+02	4 ₊ 0 <u>0.</u> ₽+02	4-0 <u>00.8+03</u>	4-0 <u>0.8+02</u>
40	4-6 <u>0.</u> E+02	7-8 <u>000.</u> E+0	1+4 <u>0.E+02</u>	4-6 <u>0.8+02</u>	4-6 <u>00.</u> =+03	4-6 <u>0.5+02</u>
45	6+0 <u>0.</u> E+02	+ 1+0 <u>0000.</u> ⊞+ 05	1+8 <u>0.</u> =+02	6∓0 <u>0.</u> E+02	6 ₊ 0 <u>00.</u> ±+03	6+0 <u>0.</u> E+02
50	7 . 8 <u>0.</u> E+02	1-3 <u>0000.</u> E+	2 - 3 <u>0.</u> ₽+02	7 . 8 <u>0.</u> ±+02	7 ₊ 8 <u>00.±+03</u>	7 . 8 <u>0.</u> ±+02
55	9 . 6 <u>0.</u> E+02	1+7 <u>0000.</u> E+	3 ₊ 0 <u>0.</u> ₩+02	9 . 6 <u>0.</u> ±+02	9 ₊ 6 <u>00.</u> ≌+03	9-6 <u>0.8+02</u>
60	1 . 2 <u>00.</u> E+03		3 . 6 <u>0.</u> E+02	1 . 2 <u>00.</u> E+03	1+2 <u>000.</u> E+0	1+2 <u>00.</u> E+03
65	1+5 <u>00.</u> E+03	+ -	4-3 <u>0.8+02</u>	1 . 5 <u>00.</u> ±+03		1-5 <u>00.8+03</u>
70	1+7 <u>00.</u> E+03	2-8 <u>0000.</u> E+	5+0 <u>0.</u> 8+02	1 . 7 <u>00.</u> E+03	4 1-7 <u>000.</u> E+0	1-7 <u>00.8+03</u>
75	1+9 <u>00.</u> E+03		5 . 8 <u>0.</u> E+02	1+9 <u>00.</u> E+03	1+9 <u>000.</u> E+0	1-9 <u>00.</u> E+03
80	2 . 2 <u>00.</u> E+03	05 3+6 <u>0000.</u> E+	6 . 4 <u>0.</u> E+02	2+2 <u>00,</u> E+03	2-2 <u>000.</u> E+0	2 . 2 <u>00.</u> E+03
85	2 ₊ 5 <u>00,</u> E+03		7 . 6 <u>0.</u> 8+02	2 . 5 <u>00.</u> ⊑+03	4 2+5 <u>000.</u> E+0	2 . 5 <u>00.</u> E+03
90	2 . 8 <u>00.</u> E+03	05 4-6 <u>0000.</u> E+	8 . 2 <u>0.</u> ±+02	2 . 8 <u>00.</u> E+03	4 2-8 <u>000.</u> E+0	2 . 8 <u>00.</u> E+03
95	3 . 2 <u>00.</u> ±+03	05 5+4 <u>0000.</u> 5+ 05	9 - 6 <u>0.</u> €+02	3 - 2 <u>00.</u> E+0 3	4 3 . 2 <u>000.</u> ⊞+0 4	3 . 2 <u>00.</u> €+03

100	3-6 <u>00.</u> =+03	6∓0 <u>0000.</u> ₽+ 05	1-1 <u>00.</u> E+03	3 - 6 <u>00.</u> E+03	3∓6 <u>000.</u> E+0 4	3 - -6 <u>00.</u> E+03
105	4-0 <u>00.5+03</u>	6 ₊ 8 <u>0000.</u> ₽+ 05	1+2 <u>00.</u> E+03	4-0 <u>00.</u> =+03	4+0 <u>000,</u> €+0 4	4-0 <u>00.</u> E+03
110	4-6 <u>00.5+03</u>	7 . 8 <u>0000.</u> #+ 05	1-4 <u>00.</u> E+03	4-6 <u>00.</u> E+03	4 - 6 <u>000.</u> E+0 4	4 . 6 <u>00.</u> E+03
115	5-4 <u>00.5+03</u>	8-6 <u>0000.</u> 5+ 05	1+6 <u>00.</u> E+03	5-4 <u>00.8+03</u>	5 . 4 <u>000.</u> E+0 4	5-4 <u>00.</u> =+03
120	6∓0 <u>00.</u> ₩+ 03	1+0 <u>00000.</u> ₽ + 06	1+8 <u>00.</u> E+03	6-0 <u>00.</u> E+03	6+0 <u>000.</u> =+0 4	6∓0 <u>00.</u> ⊞+03

I-B

Tier I and Tier II Feed Rate and Emissions Screening Limits for Noncarcinogenic Metals for Facilities in Noncomplex Terrain [Values for rural areas]

TESH (m)	Antimony (g/hr)	Barium (g/hr)	Lead (g/hr)	Mercury (g/hr)	Silver (g/hr)	Thallium (g/hr)
4 6 8 10 12 14	3+1 <u>.</u> E+01 3+6 <u>.</u> E+01 4+0 <u>.</u> E+01 4+6 <u>.</u> E+01 5+8 <u>.</u> E+01 6+8 <u>. E+01</u>	5+200.E+036+00.E+036+800.E+037+800.E+039+600.E+031+1000.E+04	1+1 <u>.8+01</u> 1+2 <u>.8+01</u> 1+4 <u>.8+01</u> 1+7 <u>.8+01</u>	3+1 <u>.</u> +01 3-6 <u>.</u> +01 4-0 <u>.</u> +01 4-6 <u>.</u> +01 5-8 <u>.</u> +01 6-8 <u>.</u> +01	$3 + 10. \pm +02$ $3 + 60. \pm +02$ $4 + 00. \pm +02$ $4 + 60. \pm +02$ $5 + 80. \pm +02$ $6 + 80. \pm +02$	3+1 <u>.</u> $E+013+6$ <u>.</u> $E+014+0$ <u>.</u> $E+014+6$ <u>.</u> $E+015+8$ <u>.</u> $E+016+8$ <u>.</u> $E+01$
16	8-6 <u>.</u> E+01	1-4 <u>000.</u> E+0 4	2 . 6 <u>.</u> E+01	8 . 6 <u>.</u> E+01	8 ₊ 6 <u>0.</u> E+02	8-6 <u>-8+01</u>
18	1+1 <u>0.</u> E+02	1-8 <u>000.</u> E+0 4	3+2 <u>+</u> 8+01	1+1 <u>0.</u> 5+02	1+1 <u>00.</u> =+03	1+1 <u>0.</u> E+02
20	1-3 <u>0.</u> E+02	2-2 <u>000.</u> E+0 4	4-0 <u>.</u> =+01	1-3 <u>0.</u> E+02	1+3 <u>00.</u> E+03	1-3 <u>0.</u> E+02
22	1∓7 <u>0.</u> E+02	2-8 <u>000.</u> 4	5+0 <u>.</u> =+01	1∓7 <u>0.</u> €+02	1∓7 <u>00.</u> E+03	1+7 <u>0.</u> E+02
24	2+2 <u>0.</u> E+02	3-6 <u>000.</u> E+0 4	6-4 <u>.8+01</u>	2+2 <u>0,</u> E+02	2 - 2 <u>00.</u> E+03	2-2 <u>0.</u> 5+02
26	2 - 8 <u>0.</u> E+02	4-6 <u>000.5+0</u> 4	8-2 <u>.5+01</u>	2 ₊ 8 <u>0.</u> ±+02	2 - 8 <u>00.</u> E+03	2-8 <u>0.</u> E+02
28	3∓5 <u>0.</u> E+02	5-8 <u>000.</u> E+0 4	1-0 <u>0.</u> E+02	3-5 <u>0.</u> 8+02	3 ₊ 5 <u>00.</u> ₽+03	3-5 <u>0.</u> E+02
30	4 - 3 <u>0.</u> E+02	76 <u>000.</u> E+0 4	1-3 <u>0.</u> E+02	4 . 3 <u>0.</u> €+02	4-3 <u>00.</u> E+03	4-3 <u>0.</u> E+02
35	7+2 <u>0.</u> E+02	1+2 <u>0000.</u> E+	2-1 <u>0.</u> E+02	7+2 <u>0.</u> E+02	7 . 2 <u>00.</u> E+03	7-2 <u>0.</u> E+02
40	1+1 <u>00.</u> E+03	1-8 <u>0000.</u> ±+	3+2 <u>0.</u> E+02	1+1 <u>00.</u> E+03	1+1 <u>000.</u> E+0 4	1+1 <u>00.</u> E+03
45	1-5 <u>00.</u> E+03	2-5 <u>0000.</u> #+	4-6 <u>0.</u> E+02	1+5 <u>00.</u> E+03	1+5 <u>000.</u> E+0 4	1+5 <u>00.</u> E+03
50	2∓0 <u>00.⊞+03</u>		6+0 <u>0.</u> E+02	2 ₊ 0 <u>00,</u> E+03	2₊0 <u>000.</u> E+0 4	2 - 0 <u>00.</u> E+03
55	2+6 <u>00.</u> ±+03	4-4 <u>0000.</u> E+	7 ₊ 8 <u>0.</u> ⊑+02	2 . 6 <u>00.</u> E+03	2-6 <u>000.</u> E+0 4	2 . 6 <u>00.</u> E+03
60	3-4 <u>00.</u> ≌+03	5+8 <u>0000.</u> #+	1∓0 <u>00.</u> E+03	3-4 <u>00.</u> E+03	3-4 <u>000.</u> E+0	3 . 4 <u>00.</u> E+03
65	4 - 6 <u>00.⊞+03</u>	7+6 <u>0000.</u> ₽+	1+4 <u>00.</u> E+03	4-6 <u>00.</u> E+03	4-6 <u>000.</u> E+0 4	4 ~ 6 <u>00.</u> E+03
70	5∓4 <u>00.</u> ±+03	9-0 <u>0000.</u> 8+	1∓6 <u>00.</u> €+03	5-4 <u>00.</u> E+03	5-4 <u>000.</u> E+0 4	5+4 <u>00.</u> E+03
75	6 . 4 <u>00.</u> ≌+03		1+9 <u>00.</u> E+03	6+4 <u>00.</u> E+03	6-4 <u>000.</u> E+0	6-4 <u>00.</u> E+03
80	7 . 6 <u>00.</u> ₽+03		2 + 3 <u>00.</u> ₽+03	7 - 6 <u>00.</u> E+03	7-6 <u>000.</u> ⊞+0 4	7 . 6 <u>00.</u> ≌+03

85	9-4 <u>00.8+03</u>	1 - 5 <u>00000.</u> ₩ + 06	2 . 8 <u>00.</u> ≞+03	9-4 <u>00.8+03</u>	9 . 4 <u>000.</u> =+0 4	9-4 <u>00.8+03</u>
90	1+1 <u>000.</u> E+0 4		3-3 <u>00.</u> E+03	1+1 <u>000.</u> E+0 4	1-1 <u>0000.</u> E+ 05	1-1 <u>000.</u> 5+0 4
95	1 . 3 <u>000.⊞+0</u> 4	2 , 2 <u>00000.</u> ⊞ + 06	3+9 <u>00.</u> E+03	1+3 <u>000.</u> E+0 4	1-3 <u>0000.</u> =+ 05	1-3 <u>000.</u> E+0 4
100	1-5 <u>000.</u> =+0 4	2 + 6 <u>00000.</u> ₩ + 06	4-6 <u>00.5+03</u>	1+5 <u>000.</u> E+0 4	1+5 <u>0000.</u> E+ 05	1+5 <u>000.</u> E+0 4
105	1 . 8 <u>000.</u> E+0 4	3 - 0 <u>00000.</u> ⊞ + 06	5-4 <u>00.</u> E+03	1+8 <u>000.</u> E+0 4	1+8 <u>0000.</u> ⊞+ 05	1-8 <u>000.8+0</u> 4
110	2 . 2 <u>000.</u> E+0 4	3 - 6 <u>00000.</u> ⊞ + 06	6+6 <u>00.</u> E+03	2-2 <u>000.</u> 4	2 , 2 <u>0000.</u> ₽+ 05	2+2 <u>000.</u> =+0 4
115	2 . 6 <u>000.</u> ⊑+0 4	4-4 <u>00000.</u> + 06	7 . 8 <u>00.</u> E+03	2 - 6 <u>000.</u> E+0 4	2 . 6 <u>0000.</u> ⊞+ 05	2 . 6 <u>000.E+0 4</u>
120	3-1 <u>000.</u> E+0 4	5+0 <u>00000.</u> ₽ + 06	9 . 2 <u>00.</u> E+03	3-1 <u>000.</u> E+0 4	3+1 <u>0000.</u> #+ 05	3+1 <u>000.</u> #+0 4

I-C Tier I and Tier II Feed Rate and Emissions Screening Limits for Noncarcinogenic Metals for Facilities in Complex Terrain

Values for urban and rural areas

TESH (m)	Antimony (g/hr)	Barium (g/hr)	Lead (g/hr)	Mercury (g/hr)	Silver (g/hr)	Thallium (g/hr)
4 6 8 10 12 14	1-4. <u>5+01</u> 2-1. <u>5+01</u> 3-0. <u>5+01</u> 4-3. <u>5+01</u> 5-4. <u>5+01</u> 6-8. <u>5+01</u>	$2+400 \cdot E+03$ $3+500 \cdot E+03$ $5+000 \cdot E+03$ $7+600 \cdot E+03$ $9+000 \cdot E+03$ $1+1000 \cdot E+0$	6.2 E+00 9.2 E+00 1 . 3 <u>.E+01</u> 1 . 7 <u>.E+01</u>	1-4. <u>B+01</u> 2-1. <u>B+01</u> 3-0. <u>B+01</u> 4-3. <u>B+01</u> 5-4. <u>B+01</u> 6-8. <u>B+01</u>	1+4 <u>0.5+02</u> 2+1 <u>0.5+02</u> 3+0 <u>0.5+02</u> 4-3 <u>0.5+02</u> 5+4 <u>0.5+02</u> 6+8 <u>0.5+02</u>	1+4 <u>.5+01</u> 2+1 <u>.5+01</u> 3+0 <u>.5+01</u> 4-3 <u>.5+01</u> 5+4 <u>.5+01</u> 6+8 <u>.5+01</u>
16	7-8 <u>.5+01</u>	- 13 <u>000.</u> ⊞+0 4	2 , 4 <u>,</u> E+01	7 . 8 <u>.</u> E+01	7-8 <u>0.</u> E+02	7 . 8 <u>.</u> E+01
18	8-6 <u>-5+01</u>	1-4 <u>000.</u> E+0	2 . 6 <u>.</u> 5+01	8-6 <u>.5+01</u>	8-6 <u>0.</u> E+02	8+6 <u>+</u> 5+01
20	9-6 <u>-5+01</u>	1-6 <u>000.</u> E+0 4	2 . 9 <u>.</u> E+01	9 . 6 <u>.</u> E+01	9-6 <u>0.8+02</u>	9 - 6 <u>-</u> E+01
22	1+0 <u>0.</u> E+02	1-8 <u>000.</u> E+0	3+2 <u>-</u> =+01	1-0 <u>0.</u> E+02	1+0 <u>00.</u> E+03	1+0 <u>0.E+02</u>
24	1 ₊ 2 <u>0.</u> ₩+02	1-9 <u>000.</u> E+0	3-5 <u>-5+01</u>	1-2 <u>0.8+02</u>	1+2 <u>00.</u> E+03	1 . 2 <u>0.E+02</u>
26	1-3 <u>0.</u> E+02	2-2 <u>000.</u> E+0	3-6 <u>.5+01</u>	1-3 <u>0.8+02</u>	1-3 <u>00.</u> E+03	1+3 <u>0.</u> E+02
28	1-4 <u>0.±+02</u>	2-4 <u>000.</u> E+0	4-3 <u>.8+01</u>	1-4 <u>0.8+02</u>	1-4 <u>00.5+03</u>	1-4 <u>0.</u> E+02
30	1-6 <u>0.</u> E+02	2-7 <u>000.</u> €+0	4-6 <u>-8+01</u>	1-6 <u>0.E+02</u>	1-6 <u>00.8+03</u>	1+6 <u>0.</u> E+02
35	2 ₊ 0 <u>0.</u> ₩+ 02	3-3 <u>000.</u> E+0	5+8 <u>.</u> E+01	2 - 0 <u>0.</u> E+02	2 - 0 <u>00.</u> E+03	2 ₊0<u>0,</u>ธ+02
40	2 ₊ 4 <u>0.</u> ±+02	4-0 <u>000.</u> E+0	7-2 <u>-8+01</u>	2-4 <u>0.8+02</u>	2 - 4 <u>00.</u> E+03	2-4 <u>0.</u> E+02
45	3 ₊ 0 <u>0.</u> ±+02	5-0 <u>000.</u> =+0	9∓0 <u>.</u> E+01	3 - 0 <u>0.</u> E+02	3 ₊0<u>00.</u>⊞+03	3 ₊ 0 <u>0,</u> ±+02
50	3 . 6 <u>0.</u> E+02	6-0 <u>000.</u> =+0	1+1 <u>0.E+02</u>	3 . 6 <u>0.</u> E+02	3 - 6 <u>00.</u> ≌+03	3 - 6 <u>0.</u> E+02
55	4 - 6 <u>0.</u> E+02	7-6 <u>000.</u> E+0	1-4 <u>0.8+02</u>	4 . 6 <u>0.</u> E+02	4 - 6 <u>00.</u> E+03	4 - 6 <u>0.</u> E+02
60	5 . 8 <u>0.</u> E+02	9-4 <u>000.</u> =+0	1+7 <u>0.</u> E+02	5-8 <u>0.</u> E+02	5-8 <u>00.</u> E+03	5+8 <u>0.</u> E+02
65	6 . 8 <u>0.</u> E+02	1.1 <u>0000.</u> ₽+	2∓1 <u>0.</u> E+02	6 . 8 <u>0.</u> E+02	6-8 <u>00.</u> E+03	6 . 8 <u>0.</u> E+02

		05				
70	7 . 8 <u>0.⊞+02</u>	1-3 <u>0000.</u> #+	2∓4 <u>0.</u> ₩+02	7-8 <u>0.</u> 5+02	7 ₊ 8 <u>00.</u> E+03	7 . 8 <u>0.</u> ≌+02
75	8-6 <u>0.8+02</u>	1-4 <u>0000.E+</u>	2∓6 <u>0.</u> E+02	8-6 <u>0.</u> E+02	8-6 <u>00.</u> 5+03	8+6 <u>0,</u> E+02
80	9 . 6 <u>0.</u> 8+02	1-6 <u>0000.</u> E+	2∓9 <u>0.</u> 5+02	9-6 <u>0.</u> 8+02	9∓6 <u>00.</u> E+03	9+6 <u>0.</u> =+02
85	1+1 <u>00.E+03</u>	1-8 <u>0000.</u> E+	3-3 <u>0.</u> E+02	1-1 <u>00.</u> E+03	1-1 <u>000.</u> 5+0 4	1+1 <u>00.</u> E+03
90	1 . 2 <u>00.</u> E+03	2-0 <u>0000.</u> €+	3-6 <u>0.</u> =+02	1 . 2 <u>00.</u> E+03	1+2 <u>000.</u> 5+0 4	1+2 <u>00.</u> ₽+03
95	1 . 4 <u>00.E+03</u>	2-3 <u>0000.</u> E+	4 ₊ 0 <u>0.</u> E+02	1 . 4 <u>00.</u> E+03	1-4 <u>000.</u> 5+0 4	1-4 <u>00.</u> =+03
100	1+5 <u>00.</u> E+03	2-60000.E+	4-6 <u>0.</u> 5+02	1+5 <u>00.</u> E+03	1-5 <u>000.</u> E+0 4	1-5 <u>00.</u> =+03
105	1 . 7 <u>00.E+03</u>	2-8 <u>0000.</u> E+	5+0 <u>0.</u> E+02	1+7 <u>00.</u> E+03	1-7 <u>000.</u> E+0 4	1 . 7 <u>00.</u> E+03
110	1+9 <u>00.</u> =+03	3-2 <u>0000.</u> E+	5+8 <u>0.</u> E+02	1₊9 <u>00.</u> ธ+03	1+9 <u>000,</u> E+0 4	1∓9 <u>00.</u> E+03
115	2 . 1 <u>00.</u> ≌+03	3+6 <u>0000.</u> E+	6-4 <u>0.</u> E+02	2 . 1 <u>00.</u> ₽+03	2+1 <u>000.</u> E+0 4	2 ₊ 1 <u>00.</u> E+03
120	2 ₊ 4 <u>00.</u> E+03	4-0 <u>0000.</u> ₽+ 05	7-2 <u>0.</u> 5+02	2 - 4 <u>00.</u> E+03	2-4 <u>000.</u> E+0 4	2 - 4 <u>00.</u> E+03

I-D

Tier I and Tier II Feed Rate and Emissions Screening Limits for Carcinogenic Metals for Facilities in Noncomplex Terrain

Values for use in urban areas

Values for use in rural areas

TESH (m)	Arsenic (g/hr)	Cadmium (g/hr)	Chromiu m (g/hr)		Arsenic (g/hr)		Chromiu m (g/hr)	Berylli um (g/hr)
4	<u>0.</u> 4-6 E- 01	1.1 E+00	<u>0.</u> 1-7 E- 01	<u>0.</u> 8-2 E- 01	<u>0.</u> 2-4 E- 01	<u>0.</u> 5-8 E- 01	<u>0.0</u> 8+6 E -02	<u>0.</u> 4-3 E- 01
6	<u>0.</u> 5-4 5- 01	1.3 E+00	<u>0.</u> 1-9 E- 01	<u>0.</u> 9-4 5- 01	<u>0.</u> 2-8 E- 01	<u>0.</u> 6-6 E- 01	<u>0.</u> 1+0 E- 01	<u>0.</u> 5+0 E- 01
8	<u>0.</u> 6-0 5- 01	1.4 E+00	<u>0.</u> 2-2 E-	1.1 E+00	<u>0.</u> 3-2 E- 01	<u>0.</u> 7+6 E- 01	<u>0.</u> 1-1 E-	<u>0.</u> 5-6 E- 01
10	<u>0.</u> 6-8 8- 01	1.6 E+00	<u>0.</u> 2-4 E-	1.2 5+00	<u>0.</u> 3-6 E- 01	<u>0.</u> 8-6 E- 01	<u>0.</u> 1-3 E- 01	<u>0.</u> 6-4 8- 01
12	$\frac{0.7}{01}$	1.8 5+00	<u>0.</u> 2-7 5- 01	1.4 E+00	<u>0.</u> 4-3 E- 01	1.1 E+00	<u>0.</u> 1-6 E-	<u>0.</u> 7-8 E -
14	<u>0.</u> 8-6 5- 01	2.1 E+00	<u>0.</u> 3-1 E- 01	1.5 E+00	<u>0.</u> 5-4 5- 01	1.3 E+00	<u>0.</u> 2-0 ≣- 01	<u>0.</u> 9-6 E- 01
16	<u>0.</u> 9-6 5- 01	2.3 E+00	<u>0.</u> 3-5 E- 01	1.7 5+00	<u>0.</u> 6-8 5- 01	1.6 E+00	<u>0.</u> 2-4 E- 01	1.2 E+00
18	1.1 E+00	2.6 E+00	<u>0.</u> 4-0 E- 01	2.0 E+00	<u>0.</u> 8+2 E- 01	2.0 E+00	<u>0.</u> 3+0 E- 01	1.5 E+00
20	1.2 E+00	3.0 E+00	<u>0.</u> 4-4 E-	2.2 E+00	1.0 E+00	2.5 E+00	<u>0.</u> 3-7 5- 01	1.9 E+00
22	1.4 E+00	3.4 5+00	<u>0.</u> 5+0 E- 01	2.5 E+00	1.3 E+00	3.2 E+00	<u>0.</u> 4-8 5- 01	2.4 E+00
24	1.6 E+00	3.9 E+00	<u>0.</u> 5-8 E- 01	2.8 5+00	1.7 E+00	4.0 E+00	<u>0.</u> 6+0 E- 01	3.0 E+00
26	1.8 E+00	4.3 E+00	<u>0.</u> 6-4 5-	3.2 5+00	2.1 E+00	5.0 E+00	$\frac{0.7 + 6E}{01}$	3.9 E+00
28	2.0 E+00	4.8 E+00	$\frac{0.7 - 2E}{01}$	3.6 E+00	2.7 E+00	6.4 E+00	<u>0.</u> 9-8 E- 01	5.0 E+00
30	2.3 E+00	5.4 E+00	<u>0.</u> 8+2 E -	4.0 5+00	3.5 E+00	8.2 5+00	1.2 5+00	6.2 E+00

			01					
35	3.0 5+00	6.8 5+00	1.0 E+00	5.4 8+00	5.4 E+00	1 . 3 <u>.</u> ₩+0 1	1.9 E+00	9.6 E+00
40	3.6 E+00	9.0 E+00	1.3 E+00	6.8 5+00	8.2 5+00	20 <u>-</u> =+0 1	3.0 E+00	1-5 <u>.</u> 5+0 1
45	4.6 E+00	1+1 <u>.</u> 5+0 +	1.7 E+00	8.6 E+00	1+1 <u>.</u> 5+0 +	28 <u>-</u> =+0	4.2 ±+00	2-1 <u>.</u> 5+0 1
50	6.0 E+00	1-4 <u>-</u> 5+0	2.2 E+00	1+1 <u>.5+0</u> +	1-5 <u>.</u> E+0 1	3 ₊ 7 <u>.</u> ≌+0 1	5.4 E+00	28 <u>-</u> =+0 +
55	7.6 E+00	1-8 <u>.</u> 5+0 1	2.7 E+00	1+4 <u>.</u> 5+0	2-0 <u>-</u> 5+0 1	5+0 <u>+0</u>	7.2 E+00	36 <u>-</u> 5+0 1
60	9.4 E+00	2-2 <u>-</u> 5+0	3.4 5+00	1+7 <u>.</u> +0		6-4 <u>.</u> 5+0 1	9.6 E+00	4-8 <u>.</u> 5+0 1
65	1-1 <u>-</u> 5+0 1	2-8 <u>-</u> 5+0	4.2 E+00	2+1 <u>.</u> E+0	36 <u>-</u> E+0 1	8+6 <u>+</u> 8+0	1+3 <u>.</u> 8+0 1	64 <u>-</u> =+0 +
70	1-3 <u>.</u> 5+0	3-1 <u>.</u> 5+0	4.6 E+00	2 . 4 <u>.</u> E+0	4-3 <u>-</u> 5+0 1	1-0 <u>0.</u> E+	1+5 <u>+</u> 5+0	7-6 <u>-5+0</u>
75	1-5 <u>.</u> =+0	3-6 <u>.</u> 5+0	5.4 E+00	2-7 <u>.</u> 5+0	- 5-0 <u>.</u> 5+0 1	1-2 <u>0.</u> E+	1+8 <u>-</u> E+0 1	9-0 <u>.</u> 5+0
80	1-7 <u>-</u> E+0	4-0 <u>.</u> =+0	6.0 E+00	3-0. <u>E+0</u>	6+0 <u>.</u> E+0	1-4 <u>0.</u> E+	2-2 <u>-</u> 2- E+0	1-1 <u>0.</u> 5+
85	1+9 <u>.</u> E+0	4-6 <u>.</u> E+0	6.8 E+00	3-4 <u>.</u> =+0	7-2 <u>-</u> E+0	1-7 <u>0.</u> E+	2-6 <u>.</u> E+0	1-3 <u>0.</u> E+
90	2-2 <u>-</u> E+0	5+0 <u>+</u> 5+0	7.8 E+00	3+9 <u>+</u> E+0	8-6 <u>.</u> 5+0	2-0 <u>0.</u> E+	3-0 <u>-</u> E+0	1-5 <u>0.</u> E+
95	2-5 <u>-</u> 5+0	5-8 <u>-</u> E+0	9.0 E+00	4-4 <u>-</u> E+0	1+0 <u>0.</u> E+	2-40.E+	3-6 <u>.</u> 5+0	1-8 <u>0.</u> E+
100	2-8 <u>-</u> E+0	6-8 <u>-</u> 8+0	1-0 <u>.</u> E+0 +	5-0 <u>.</u> E+0	1+2 <u>0.</u> E+	2-9 <u>0.</u> =+	4-3 <u>-</u> E+0	2-20.E+
105	3-2 <u>-</u> E+0	7-6 <u>-</u> 5+0	1+1 <u>.</u> E+0	5-6 <u>.</u> E+0	1-4 <u>0.</u> E+	3-4 <u>0.</u> E+	5-0 <u>-</u> 5+0	2 - 6 <u>0.</u> E + 02
110	36 <u>-</u> =+0	8-6 <u>.</u> =+0	1+3 <u>.</u> E+0	6-4 <u>.</u> E+0	1+7 <u>0.</u> E+	4-0 <u>0.</u> E+	6-0 <u>-</u> E+0	3-0 <u>0.</u> E+
115	4-0 <u>.</u> =+0	9-6 <u>-</u> E+0	1-5 <u>-</u> E+0	7-2 <u>-</u> E+0	2+0 <u>0.</u> E+	4 , 8 <u>0.</u> <u></u> €+	7-2 <u>-</u> E+0	3 . -6 <u>0.</u> E + 02
120	- 4-6 <u>-</u> €+0 +	1+1 <u>0.</u> E+ 02	1-7 <u>.5+0</u> 1	± 8∓2 <u>.</u> ≌+0 ±		5-8 <u>0.</u> E+ 02	8-6 <u>.</u> 8+0 1	4 - 3 <u>0.</u> €+ 02

I-E

Tier I and Tier II Feed Rate and Emissions Screening Limits for Carcinogenic Metals for Facilities in Complex Terrain Values for use in urban and rural areas

TESH (m)	Arsenic (g/hr)	Cadmium (g/hr)	Chromium (g/hr)	Beryllium (g/hr)
4 6 8 10 12 14 16 18 20 22 24 26 28 30 35	$ \underbrace{0.1+1E-01} \\ \underbrace{0.2+4E-01} \\ \underbrace{0.3+5E-01} \\ \underbrace{0.4+3E-01} \\ \underbrace{0.5+0E-01} \\ \underbrace{0.6+0E-01} \\ \underbrace{0.6+8E-01} \\ \underbrace{0.7+6E-01} \\ \underbrace{0.8+2E-01} \\ \underbrace{0.9+0E-01} \\ 1.0E+00 \\ 1.1E+00 \\ 1.5E+00 \\ 1.5E+00 \\ $	$ \underbrace{0.2+6E-01}{0.3+9E-01} \\ \underbrace{0.5+8E-01}{0.8+2E-01} \\ 1.0E+00 \\ 1.3E+00 \\ 1.4E+00 \\ 1.6E+00 \\ 1.8E+00 \\ 1.8E+00 \\ 2.1E+00 \\ 2.1E+00 \\ 2.7E+00 \\ 3.0E+00 \\ 3.7E+00 \\ 3.7E$	$ \underbrace{0.0}{4.0E-02} \\ \underbrace{0.0}{5.8E-02} \\ \underbrace{0.0}{8.6E-02} \\ \underbrace{0.1.3E-01} \\ \underbrace{0.1.5E-01} \\ \underbrace{0.1.9E-01} \\ \underbrace{0.2.2E-01} \\ \underbrace{0.2.7E-01} \\ \underbrace{0.2.7E-01} \\ \underbrace{0.3.0E-01} \\ \underbrace{0.3.6E-01} \\ \underbrace{0.3.6E-01} \\ \underbrace{0.4.0E-01} \\ \underbrace{0.4.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.4E-01} \\ \underbrace{0.5.5.4E-01} \\ 0.5.$	$\frac{0.2+0E-01}{0.2+9E-01}$ $\frac{0.4+3E-01}{0.6+2E-01}$ $\frac{0.7+6E-01}{0.9+4E-01}$ $1.1E+00$ $1.2E+00$ $1.3E+00$ $1.5E+00$ $1.6E+00$ $1.8E+00$ $2.0E+00$ $2.2E+00$ $2.7E+00$
40	1.9 E+00	4.6 E+00	<u>0.</u> 6-8 E-01	3.4 E+00

45	2.4 5+00	5.4 E+00	0.8-4 E-01	4.2 E+00
50	2.9 5+00	6.8 E+00	1.0 E+00	5.0 5+00
55	3.5 E+00	8.4 E+00	1.3 E+00	6.4 E+00
60	4.3 5+00	1-0 <u>-8+01</u>	1.5 E+00	7.8 5+00
65	5.4 5+00	1-3 <u>-8+01</u>	1.9 E+00	9.6 E+00
70	6.0 E+00	1-4-B+01	2.2 E+00	1-1 <u>.5+01</u>
75	6.8 5+00	1-6 <u>-</u>	2.4 E+00	1+2 <u>.++01</u>
80	7.6 E+00	1-8 <u>-8+01</u>	2.7 E+00	1+3 <u>.E+01</u>
85	8.2 5+00	2-0- 5+01	3.0 E+00	1+5 <u>.E+01</u>
90	9.4 5+00	2-3_ E+01	3.4 E+00	1-7 <u>-</u> ==+01
95	1+0 <u>.</u> ++01	2-5 <u>-</u> 5+01	4.0 E+00	1-9-E+01
100	1-2 <u>-</u> =+01	2-8 <u>-</u> E+01	4.3 E+00	2+1 <u>.E+01</u>
105	1-3 <u>-</u>	3-2 <u>.8+01</u>	4.8 E+00	2-4 <u>.8+01</u>
110	1-5 <u>-</u> E+01	3-5 <u>-8+01</u>	5.4 E+00	2 - 7 <u>-</u> <u>∓+01</u>
115	1+7 <u>.</u> E+01	4-0 <u>.</u> E+01	6.0 E+00	3-0 <u>.8+01</u>
120	1-9 <u>-</u> E+01	4-4 <u>-</u> E+01	6.4 5+00	3-3 <u>-</u> ===01
(0	Dependent of 10 Til	Dee	offerstive.	,
(Source:	Amended at 19 Ill.	кед,	effective)

Section 726.Appendix B Tier I Feed Rate Screening Limits for Total Chlorine Tier I Feed Rate Screening Limits for Total Chlorine

TESH (m) Noncomplex Noncomplex Complex Terrain (g/hr)	stratu
Urban (g/hr) Rural (g/hr)	
4 $8+2.E+01$ $4+2.E+01$ $1+9.E+01$	
6 9+1 + 0+ 1 4+8 + 0+ 2+8 + 0+	
8 $1 - 00.E + 02$ $5 - 3.E + 01$ $4 - 1.E + 01$	
10 $1+20.E+02$ $6+2.E+01$ $5+8.E+01$	
12 1+3 <u>0.E+02</u> 7+7 <u>.E+01</u> 7+2 <u>.E+01</u>	
14 1	
16 $1_{\tau}70.\underline{B+02}$ $1_{\tau}20.\underline{B+02}$ $1_{\tau}10.\underline{B+02}$	
18 $1+90.E+02$ $1-40.E+02$ $1-20.E+02$	
20 $2+10.E+02$ $1+80.E+02$ $1-30.E+02$	
22 $2+40.B+02$ $2-30.E+02$ $1-40.B+02$	
24 $2 + 70 + 60 + 62 = 2 + 90 + 62 = 1 + 60 + 62 = 1 + 60 + 62 = 1 + 60 + 62 = 1 + 60 + 62 = 1 + 62 =$	
26 $3+10.E+02$ $3-70.E+02$ $1-70.E+02$	
28 $3+50.E+02$ $4+70.E+02$ $1+90.E+02$	
30 $3_{7}90.E+02$ $5_{7}80.E+02$ $2_{7}10.E+02$	
5+30.8+02 $9+60.8+02$ $2+60.8+02$	
40 $6+2\overline{0.E+02}$ $1+4\overline{00.E+03}$ $3+3\overline{0.E+02}$	
45 $8+20.E+02$ $2+000.E+03$ $4+00.E+02$	
50 $1+1\overline{00,B+03}$ $2+6\overline{00,B+03}$ $4+8\overline{0,B+02}$	
55 $1+300.E+03$ $3+500.E+03$ $6+20.E+02$	
60 1+600.E+03 4+600.E+03 7+70.E+02	
65 $2+000.E+03$ $6+200.E+03$ $9+10.E+02$	
70 $2+300.E+03$ $7+200.E+03$ $1+100.E+03$	3
75 $2+500.B+03$ $8+600.B+03$ $1+200.B+03$	3
80 $2+900.E+03$ $1-0000.E+04$ $1-300.E+0$	
85 $3_{\pm 3}\overline{00.E^{\pm +03}}$ $1_{\pm 2}\overline{000.E^{\pm +04}}$ $1_{\pm 4}\overline{00.E^{\pm +04}}$	3
90 $3+700.E+03$ $1+4000.E+04$ $1+600.E+03$	
95 $4-200.E+03$ $1-7000.E+04$ $1-800.E+03$	
100 $4 + 8 00.E + 03$ $2 - 1000.E + 04$ $2 - 000.E + 0$	\$
105 $5+300.E+03$ $2+4000.E+04$ $2+300.E+0$	
110 $6_{\pm 2} \underline{00.E}_{\pm 03}$ $2_{\pm 9} \underline{000.E}_{\pm 04}$ $2_{\pm 5} \underline{00.E}_{\pm 03}$	
115 $7_{\pm 2} \overline{00.E+03}$ $3_{\pm 5} \overline{000.E+04}$ $2_{\pm 8} \overline{00.E+04}$	
120 $8_{-200,E+03}$ $4_{-1000,E+04}$ $3_{-200,E+0}$	
	-
(Source: Amended at 19 Ill. Reg, effective)

219

	Noncomplex	menue i e		manua i a		
rural area	Noncomplex Urban areas		NOUCOMDIEX	Terrain Rural areas	Complex Te	Urban and
TESH (m)	Chlorine Gas (g/hr)	HCl (g/hr)	Chlorine Gas (g/hr)	HCl (g/hr)	Chlorine gas (g/hr)	HCl (g/hr)
4	8+2 <u>+</u> 5+01	1-4 <u>00.</u> E+0 3	4+2 <u>+</u> E+01	7 ₊ 3 <u>0,</u> ±+02	1+9 <u>.E+01</u>	3-3 <u>0.</u> =+02
6	9 . 1 <u>.8+01</u>	1+6 <u>00.</u> =+0 3	4-8 <u>-</u> 8+01	8-3 <u>0.</u> =+02	2 - -8 <u>.</u> E+01	4 ₊ 9 <u>0.</u> ±+02
8	1+0 <u>0.</u> E+02	1+8 <u>00.</u> E+0 3	5-3 <u>.</u> =+01	9 . 2 <u>0.</u> E+02	4-1 <u>.5+01</u>	7+1 <u>0.</u> E+02
10	1-2 <u>0.</u> 8+02	2-0 <u>00.8+0</u> 3	6+2 <u>.5+01</u>	1+1 <u>00.</u> E+0 3	5-8 <u>.8+01</u>	1∓0 <u>00.</u> ≌+0 3
12	1-3 <u>0.</u> E+02	2-3 <u>00.</u> =+0 3	7+7 <u>.</u> E+01	1+3 <u>00.</u> ₽+0 3	7 ₊ 2 <u>.±+01</u>	1-3 <u>00.</u> E+0 3
14	1+5 <u>0.</u> =+02	2 . 6 <u>00.</u> ₩+0 3	9+1 <u>.5+01</u>	1+6 <u>00.</u> E+0 3	9-1 <u>.8+01</u>	1+6 <u>00.8+0</u> 3
16	1 . 7 <u>0.</u> E+02	2-9 <u>00.</u> =+0 3	1-2 <u>0.</u> E+02	2-0 <u>00.</u> E+0 3	1+1 <u>0.</u> E+02	1+8 <u>00.</u> =+0 3
18	1+9 <u>0.</u> E+02	3-3 <u>00.</u> 3-3	1-4 <u>0.</u> E+02	2 , 5 <u>00,</u> ±+0 3	1+2 <u>0.</u> =+02	2∓0 <u>00.</u> ≌+0 3
20	2 ₊ 1 <u>0.</u> ≌+02	3+7 <u>00.</u> E+0 3	1-8 <u>0.</u> 5+02	3-1 <u>00.</u> E+0 3	1+3 <u>0.</u> =+02	2+3 <u>00.</u> =+0
22	2-4 <u>0.</u> 5+02	4+2 <u>00.</u> E+0 3	2∓3 <u>0.</u> ≌+02	3-9 <u>00.</u> =+0 3	1 . 4 <u>0.B+02</u>	2-4 <u>00.5+0</u> 3
24	2 ₊ 7 <u>0.</u> ₩+02	4-8 <u>00.</u> =+0 3	2-9 <u>0.</u> E+02	5+0 <u>00.</u> =+0 3	1 . 6 <u>0.</u> E+02	2-8 <u>00.</u> =+0
26	3 ₊ 1 <u>0.</u> ₩+02	5-4 <u>00.</u> =+0 3	3 . 7 <u>0.</u> 5+02	6 . 5 <u>00.</u> ±+0 3	1 . 7 <u>0.</u> E+02	3+0 <u>00.</u> ⊞+0 3
28	3 . 5 <u>0.</u> E+02	6+0 <u>00.</u> 5+0 3	4-7 <u>0.</u> 5+02	8+1 <u>00.</u> E+0 3	1-9 <u>0.</u> E+02	3-4 <u>00.</u> =+0 -3
30	3-9 <u>0.8+02</u>	6 . 9 <u>00.</u> ⊞+0 3	5 . 8 <u>0.</u> 5+02	1+0 <u>000.</u> E+ 04	2 - 1 <u>0.</u> E+02	3 . 7 <u>00.</u> ⊞+0 3
35	5-3 <u>0.</u> =+02	9+2 <u>00.</u>	9-6 <u>0.</u> 5+02	1-7 <u>000.</u> E+ 04	2 ₊ 6 <u>0.±+02</u>	4-6 <u>00.5+0</u> 3
40	6 - 2 <u>0.</u> ≣+02	1 . 1 <u>000.</u> ∺+ 04	1-4 <u>00.</u> E+0 3	2 . 5 <u>000.</u> E+ 04	3 - 3 <u>0.</u> E+02	5-7 <u>00.</u> 8+0 3
45	8-2 <u>0.</u> E+02	1-4 <u>000.</u> =+ 04	2-0 <u>00.</u> ±+0 3	3+5 <u>000.</u> E+ 04	4-0 <u>0.</u> E+02	7+0 <u>00.</u> E+0 3
50	1+1 <u>00.⊞+0</u> 3	1 . 8 <u>000.</u> #+ 04	2 - -6 <u>00.</u> E+0 3	4-6 <u>000.</u> E+	4 - 8 <u>0.</u> E+02	8-4 <u>00.</u> =+0 3
55	1+3 <u>00.</u> ≌+0 3	2-3 <u>000.</u> 5+ 04	3-5 <u>00.</u> E+0 3	6-1 <u>000.</u> E+ 04	6+2 <u>0.</u> E+02	1+1 <u>000.</u> ₽+ 04
60	1 . 6 <u>00.≣+0</u> 3	2 - 9 <u>000.</u> ⊞+ 04	4 - 6 <u>00.</u> ±+0 3	8-1 <u>000.</u> E+ 04	7 ₊ 7 <u>0.E+02</u>	1 , 3 <u>000,</u> ⊞+ 04
65	2 . 0 <u>00.</u> ≌+0 3	3-4 <u>000.</u> =+ 04	6+2 <u>00.</u> ₩+0 3	1-1 <u>0000.</u> + 05	9-1 <u>0.</u> E+02	1-6 <u>000.</u> E+ 04
70	2 , 3 <u>00.⊞+0</u> 3	3-9 <u>000.</u> 8+ 04	7 . 2 <u>00.</u> ±+0 3	1 , 3 <u>0000.</u> ₽ +05	1+1 <u>00.</u> €+0 3	1-8 <u>000.</u> ⊞+ 04
75	2 . 5 <u>00.</u> ≌+0 3	4-5 <u>000.</u> #+ 04	8∓6 <u>00.</u> ±+0 3	1 , 5 <u>0000.</u> ₽ +05	1-2 <u>00.</u> E+0 3	2∓0 <u>000.</u> ⊞+ 04
80	2 , 9 <u>00.</u> E+0 3	5-0 <u>000.</u> E+ 04	1+0 <u>000.</u> #+ 04	1-8 <u>0000.</u> ₽ + 05	1-3 <u>00.</u> ⊞+0 3	2+3 <u>000.</u> #+ 04
85	3+3 <u>00.</u> ₽+0 3	5-8 <u>000.</u> E+ 04	1+2 <u>000.</u> E+	2-2 <u>0000.</u> +05	1-4 <u>00.</u> E+0 3	2 - 5 <u>000.</u> ±+ 0 4
90	3 . 7 <u>00.</u> 5+0 3	6 . 6 <u>000.</u> E+ 04	1+4 <u>000.</u> #+ 04	2 . -5 <u>0000.</u> ₽ +05	1+6 <u>00.</u> 3	2∓9 <u>000.</u> ₽+ 04

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Section 726.Appendix C Tier II Emission Rate Screening Limits for Free Chlorine and Hydrogen Chloride

95	4 . 2 <u>00.⊞+0</u>	7 . 4 <u>000.</u> ⊞+	1 . 7 <u>000.E+</u>	3∓0 <u>0000.</u> ₽	1 . 8 <u>00.</u> ±+0	3 . 2 <u>000.</u> ⊞+
	3	04	04	+ 05	3	04
100	4 . 8 <u>00.</u> ≌+0	8 . 4 <u>000.</u> ⊑+	2 . 1 <u>000.</u> ₽+	3 . 6 <u>0000.</u> ₽	2 . 0 <u>00.</u> ≌+0	3 . 5 <u>000.</u> ₽+
	3	04	04	+ 05	3	04
105	5 . 3 <u>00.8+0</u>	9 , 2 <u>000.</u> ⊞+	2 . 4 <u>000.</u> ⊞+	4 , 3 <u>0000.</u> ₩	2 . 3 <u>00.</u> ≌+0	3 . 9 <u>000.</u> ⊑+
	3	04	04	+ 05	3	04
110	6+2 <u>00.</u> E+0	1 , 1 <u>0000.</u> ₽	2 . 9 <u>000.</u> ₽+	5 . 1 <u>0000.</u>	2 ↓ 5 <u>00.₽+0</u>	4 . 5 <u>000.</u> ⊑+
	3	+05	04	+ 05	3	04
115	7-2 <u>00.5+0</u>	1 . 3 <u>0000.</u> ₽	3 . 5 <u>000.</u> ⊞+	6 . 1 <u>0000.</u> ₩	2 . 8 <u>00.</u> ⊑+0	5+0 <u>000.</u> #+
	3	+ 05	04	+ 05	3	04
120	8+2 <u>00.</u> E+0	1 + 4 <u>0000.</u>	4-1 <u>000.</u> E+	7+2 <u>0000.</u> #	3+2 <u>00.</u> E+0	5+6 <u>000.</u> #+
	3	+ 05	04	+ 05	3	04
(Source:	Amended at 1	9 Ill. Reg.	, e	effective)

Section 726. Appendix E Risk Specific Doses

BOARD NOTE: These are risk specific doses (RSDs) based on a risk of 1E-05 in 10,000 (1×10^{-5}) .

Constituent	CAS No.	Unit risk (cu m <u>³/æµ</u> g)	RSD (₩ <u>µ</u> g/ cu m <u>³</u>)
Acrylamide Acrylonitrile	79-06-1 107-13-1	<u>0.00</u> 1+3 E-03 0.00006+8 E-05	<u>0.00</u> 7 . 7 5-03 0.1 . 5 5-01
Aldrin	309-00-2	0.004 - 9E - 03	0.002 - 0E - 03
Aniline	62-53-3	0.00007 + 4E - 06	$\frac{0.00}{1.4E+00}$
Arsenic	7440-38-2	0.004 + 3E - 03	0.002 - 3E - 03
Benz(a)anthracene	56-55-3	0.0008-9 E-04	0.01 - 1 = -02
Benzene	71-43-2	0.00008 - 3E - 06	$\frac{0.01110}{1.2E+00}$
Benzidine	92-87-5	0.06 + 7 = -02	0.0001 - 5E - 04
Benzo(a)pyrene	50-32-8	0.003 + 3E - 03	0.003 + 0E - 03
Beryllium	7440-41-7	0.002 - 4E - 03	0.004 + 2E - 03
Bis(2-chloro-	111-44-4	0.0003-3E-04	0.03 - 0 = -02
ethyl)ether	*** 11 1	<u>0.000</u> 3131 04	<u></u>
Bis(chloromethyl)-	542-88-1	0.06+2 E-02	0.0001 - 6E - 04
ether		0100122 02	<u></u> 2++++++++++++++++++++++++++++++++
Bis(2-ethylhexyl)-	117-81-7	0.000002-4 E-07	4-2.5+01
phthalate			
1,3-Butadiene	106-99-0	0.0002-8 5-04	0.03-6 E-02
Cadmium	7440-43-9	0.001-85-03	0.005-6 E-03
Carbon Tetra-	56-23-5	0.00001-5 E-05	0.6 - 7 = -01
chloride			
Chlordane	57-74-9	0.0003-7 E-04	0.02-7 E-02
Chloroform	67-66-3	0.00002-3E-05	0.4 - 3 = -01
Chloromethane	74-87-3	0.00003-6 E-06	2.8 E+00
Chromium VI	7440-47-3	0.01 - 2E - 02	0.0008-3 E-04
DDT	50-29-3	0.00009-7 E-05	0.1 - 0 = -01
Dibenz(a,h)anthra-	53-70-3	0.01-4E-02	0.0007 - 1E - 04
cene			
1,2-Dibromo-3-	96-12-8	<u>0.00</u> 6+3 E-03	<u>0.00</u> 1 . 6 5-03
chloropropane			
1,2-Dibromoethane	106-93-4	<u>0.000</u> 2-2 E-04	<u>0.0</u> 4-5 E-02
1,1-Dichloroethane	75-34-3	<u>0.0000</u> 2-6 E-05	<u>0.</u> 3-8 E-01
1,2-Dichloroethane	107-06-2	<u>0.0000</u> 2-6 E-05	<u>0.</u> 3-8 E-01
1,1-Dichloro-	75-35-4	<u>0.0000</u> 5+0 E-05	<u>0.</u> 2+0 E-01
ethylene			
1,3-Dichloro-	542-75-6	<u>0.</u> 3.5 5-01	<u>0.0000</u> 2-9 E-05
propene		0 004 <i>(</i> =	
Dieldrin	60-57-1	<u>0.00</u> 4-6 E-03	0.002 - 2E - 03
Diethylstilbestrol	56-53-1	0.1 + 4E - 01	0.00007 - 1E - 05
Dimethylnitros-	62-75-9	0.01 - 4E - 02	<u>0.000</u> 7-1 5-04

amine 2,4-Dinitrotoluene	121-14-2
1,2-Diphenyl-	122-66-7
hydrazine	
1,4-Dioxane	123-91-1
Epichlorohydrin	106-89-8
Ethylene Oxide	75-21-8
Ethylene Dibromide	106-93-4
Formaldehyde	50-00-0
Heptachlor	76-44-8
Heptachlor Epoxide	1024-57-3
Hexachlorobenzene	118-74-1
Hexachlorobuta-	87-68-3
diene Alpha-hexachloro-	319-84-6
cyclohexane	515 04 0
Beta-hexachloro-	319-85-7
cyclohexane	
Gamma-hexachloro-	58-89-9
cyclohexane	
Hexachlorocyclo-	
hexane, Technical	
Hexachlorodibenzo-	
p-dioxin(1,2	
Mixture)	
Hexachloroethane	67-72-1
Hydrazine	302-01-2
Hydrazine Sulfate	302-01-2
3-Methylchol-	56-49-5
anthrene	60-34-4
Methyl Hydrazine Methylene Chloride	75-09-2
4,4'-Methylene-	101-14-4
bis-2-chloro-	101 14 4
aniline	
Nickel	7440-02-0
Nickel Refinery	7440-02-0
Dust	
Nickel Subsulfide	12035-72-2
2-Nitropropane	79-46-9
N-Nitroso-n-butyl-	924-16-3
amine	604 00 F
N-Nitroso-n-	684-93-5
methylurea	55-18-5
N-Nitrosodiethyl- amine	22-10-2
N-Nitroso-	930-55-2
pyrrolidine	JJU JJ 2
Pentachloronitro-	82-68-8
benzene	01 00 0
PCBs	1336-36-3
Pronamide	23950-58-5
Reserpine	50-55-5
2,3,7,8-Tetra-	1746-01-6
chlorodibenzo-p-	
dioxin	
1,1,2,2-Tetra-	79-34-5
chloroethane	100 10 1
Tetrachloro-	127-18-4
ethylene	
Thiourea	62-56-6
1,1,2-	79-00-5

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<u>0.0000</u> 8 .8±-05 <u>0.000</u> 2-2 E-04	<u>0.</u> 1 .1E-01 0.04.5 E-02
$\frac{0.000001 + 4E - 06}{0.00001 + 0E - 04}$ $\frac{0.0001 + 0E - 04}{0.0002 + 2E - 04}$ $\frac{0.00001 + 3E - 05}{0.001 + 3E - 03}$ $\frac{0.002 + 6E - 03}{0.0004 + 9E - 04}$ $\frac{0.0000}{0.00002 + 0E - 05}$	7.1 $E+00$ 8.3 $E+00$ 0.1+0 $E-01$ 0.04+5 $E-02$ 0.7+7 $E-01$ 0.007+7 $E-03$ 0.003+8 $E-03$ 0.02+0 $E-02$ 0.5+0 $E-01$
<u>0.00</u> 1+8 E-03	<u>0.00</u> 5+6 E-03
<u>0.000</u> 5-3 E-04	<u>0.0</u> 1.9 E-02
<u>0.000</u> 3 . 8 E-04	<u>0.0</u> 2.6 E-02
<u>0.000</u> 5-1 E-04	<u>0.0</u> 2+0 E-02
1.3 E+0	<u>0.00000</u> 7+7 E-06
$\frac{0.000004+0E-06}{0.002+9E-03}$ $\frac{0.002+9E-03}{0.002+7E-03}$ $\frac{0.000}{0.002}+7E-03$ $\frac{0.000}{0.000}+1E-04$ $\frac{0.00000}{0.0000}+7E-05$	$2.5 \pm +00$ $0.003 + 4 \pm -03$ $0.003 + 4 \pm -03$ $0.003 + 7 \pm -03$ $0.03 + 2 \pm -02$ $2.4 \pm +00$ $0.2 + 1 \pm -01$
<u>0.000</u> 2 .4E-04 <u>0.000</u> 2 .4E-04	<u>0.0</u> 4-2 E-02 0.04-2 E-02
<u>0.000</u> 4+8 E-04 <u>0.02</u> +7 E-02 <u>0.00</u> 1+6 E-03	<u>0.0</u> 2+1 E-02 0.0003+7 E-04 0.0006+3 E-03
<u>0.0</u> 8-6 E-02	<u>0.000</u> 1 . 2 E-04
<u>0.0</u> 4+3 E-02	<u>0.000</u> 2+3 E-04
<u>0.000</u> 6-1 E-04	<u>0.0</u> 1-6 E-02
<u>0.0000</u> 7.3 E-05	<u>0.</u> 1-4 E-01
<u>0.00</u> 1+2 E-03 0.0000004+6 E-06 0.003+0 E-03 4+5 <u>+8+01</u>	0.008+3 E-03 2.2 E+00 0.003+3 E-03 0.0000002+2 E-07
<u>0.0000</u> 5-8 E-05	<u>0.</u> 1 . 7 E-01
<u>0.000000</u> 4-8 E-07	2+1 <u>.</u> =+01
<u>0.000</u> 5+5 E-04 <u>0.0000</u> 1+6 E-05	<u>0.0</u> 1+8 E-02 <u>0.</u> 6+3 E-01

Trichloroethane Trichloroethylene 79-01-6 0.00001-3E-06 7.7E+00 2,4,6-Trichloro- 88-06-2 0.000005-7E-06 1.8E+00 phenol 8001-35-2 0.03-1E-02 Toxaphene 0.0003-2E-04 Vinyl Chloride 75-01-4 0.00007 - 1 = -06 $1.4 \pm +00$

(Source: Amended at 19 Ill. Reg. ____, effective ____ _)

Section 726. Appendix M Mercury-Bearing Wastes That May Be Processed in Exempt Mercury Recovery Units

The following materials are exempt mercury-bearing materials containing less than 500 ppm of 35 Ill. Adm. Code 721. Appendix H organic constituents, when generated by manufacturers or users of mercury or mercury products:

> Activated carbon Decomposer graphite Wood Paper Protective clothing Sweepings <u>Respiratory cartridge filters</u> Cleanup articles Plastic bags and other contaminated containers Laboratory and process control samples K106 and other wastewater treatment plant sludge and filter cake Mercury cell sump and tank sludge Mercury cell process solids Recoverable levels of mercury contained in soil

(Source: Added at 19 Ill. Reg. _____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER C: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 728 LAND DISPOSAL RESTRICTIONS

SUBPART A: GENERAL

Section	
728.101	Purpose, Scope and Applicability
728.102	Definitions
728.103	Dilution Prohibited as a Substitute for Treatment
728.104	Treatment Surface Impoundment Exemption
728.105	Procedures for case-by-case Extensions to an Effective Date
728.106	Petitions to Allow Land Disposal of a Waste Prohibited under
	Subpart C
728.107	Waste Analysis and Recordkeeping
728.108	Landfill and Surface Impoundment Disposal Restrictions (Repealed)
728.109	Special Rules for Characteristic Wastes
	SUBPART B: SCHEDULE FOR LAND DISPOSAL PROHIBITION
	AND ESTABLISHMENT OF TREATMENT STANDARDS
Section	

728.110	First	Third
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- Second Third 728.111
- Third Third 728.112
- 728.113 Newly Listed Wastes

224

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728.114	Surface Impoundment exemptions
	SUBPART C: PROHIBITION ON LAND DISPOSAL
Section	
728.130	Waste Specific Prohibitions Solvent Wastes
728.131	Waste Specific Prohibitions Dioxin-Containing Wastes
728.132	Waste Specific Prohibitions California List Wastes
728.133	Waste Specific Prohibitions:First Third Wastes
728.134	Waste Specific Prohibitions Second Third Wastes
728.135	Waste Specific Prohibitions Third Third Wastes
728.136	Waste Specific Prohibitions Newly Listed Wastes
728.137	Waste Specific Prohibitions Ignitable and Corrosive
	Characteristic Wastes Whose Treatment Standards Were Vacated
728.138	Waste-Specific Prohibitions: Newly-Identified Organic Toxicity
	Characteristic Wastes and Newly-Listed Coke By-Product and
	Chlorotoluene Production Wastes
728.139	Statutory Prohibitions
	SUBPART D: TREATMENT STANDARDS
Section	
728.140	Applicability of Treatment Standards
728.141	Treatment Standards Expressed as Concentrations in Waste Extract
728.142	Treatment Standards Expressed as Specified Technologies
728.143	Treatment Standards eExpressed as Waste Concentrations
728.144	Adjustment of Treatment Standard
728.145	Treatment Standards for Hazardous Debris
728.146	Alternative Treatment Standards Based on HTMR
<u>728.148</u>	<u>Universal Treatment Standards</u>
	SUBPART E: PROHIBITIONS ON STORAGE
Section	
728.150	Prohibitions on Storage of Restricted Wastes
728.Appendi:	x A Toxicity Characteristic Leaching Procedure (TCLP)
728.Appendi:	
**	Residual Extract)
728.Appendi:	
728.Appendi	
728.Appendi	
728.Appendi	
728.Appendi	
728.Appendi:	
728.Appendi	
728.Appendi:	
728.Table A	Constituent Concentrations in Waste Extract (CCWE)
728.Table B	
728.Table C	
	Standards
728.Table D	Technology-Based Standards by RCRA Waste Code
728.Table E	Standards for Radioactive Mixed Waste
728.Table F	
728.Table G	
728.Table H	
728.Table T	Treatment Standards for Hazardous Wastes
728.Table U	Universal Treatment Standards (UTS)

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SOURCE: Adopted in R87-5 at 11 Ill. Reg. 19354, effective November 12, 1987; amended in R87-39 at 12 Ill. Reg. 13046, effective July 29, 1988; amended in

R89-1 at 13 Ill. Reg. 18403, effective November 13, 1989; amended in R89-9 at 14 Ill. Reg. 6232, effective April 16, 1990; amended in R90-2 at 14 Ill. Reg. 14470, effective August 22, 1990; amended in R90-10 at 14 Ill. Reg. 16508, effective September 25, 1990; amended in R90-11 at 15 Ill. Reg. 9462, effective June 17, 1991; amended in R92-10 at 17 Ill. Reg. 5727, effective March 26, 1993; amended in R93-4 at 17 Ill. Reg. 20692, effective November 22, 1993; amended in R93-16 at 18 Ill. Reg. 6799, effective April 26, 1994; amended in R94-7 at 18 Ill. Reg. 12203, effective July 29, 1994; amended in R94-17 at 18 Ill. Reg. 17563, effective November 23, 1994; amended in R95-6 at 19 Ill. Reg. , effective

SUBPART A: GENERAL

Section 728.101 Purpose, Scope and Applicability

- a) This Part identifies hazardous wastes that are restricted from land disposal and defines those limited circumstances under which an otherwise prohibited waste may continue to be land disposed.
- b) Except as specifically provided otherwise in this Part or 35 Ill. Adm. Code 721, the requirements of this Part apply to persons whethat generate or transport hazardous waste and to owners and operators of hazardous waste treatment, storage, and disposal facilities.
- c) Restricted wastes may continue to be land disposed as follows:
 - Where persons have been granted an extension to the effective date of a prohibition under Subpart C or pursuant to Section 728.105, with respect to those wastes covered by the extension;
 - 2) Where persons have been granted an exemption from a prohibition pursuant to a petition under Section 728.106, with respect to those wastes and units covered by the petition;
 - 3) Wastes that are hazardous only because they exhibit a hazardous characteristic, and which that are otherwise prohibited from land disposal under this Part, are not prohibited from land disposal if the wastes:
 - A) Are disposed into a nonhazardous or hazardous waste injection well, as defined in 35 Ill. Adm. Code 704.106(a); and
 - B) Do not exhibit any prohibited characteristic of hazardous waste at the point of injection+; and
 - C) If, at the point of generation, the injected wastes include D001 High TOC subcategory wastes or D012-D017 pesticide wastes that are prohibited under Section 728.117(c), those wastes have been treated to meet the treatment standards of Section 728.140 prior to injection.
- d) This Part does not affect the availability of a waiver under Section 121(d)(4) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (42 U.S.C. <u>\$</u> 9601 et seq.).

- e) The following hazardous wastes are not subject to any provision of this Part:
 - Wastes generated by small quantity generators of less than 100 kg of non-acute hazardous waste or less than 1 kg of acute hazardous waste per month, as defined in 35 Ill. Adm. Code 721.105;
 - 2) Waste pesticides that a farmer disposes of pursuant to 35 Ill. Adm. Code 722.170;
 - 3) Wastes identified or listed as hazardous after November 8, 1984, for which U.S. EPA has not promulgated land disposal prohibitions or treatment standards.
 - 4) De minimis losses to wastewater treatment systems of commercial chemical product or chemical intermediates that are ignitable (D001) τ or corrosive (D002) τ or that are organic constituents that exhibit the characteristic of toxicity (D012-D043) and that contain underlying hazardous constituents, as defined in Section 728.102 of this Part, are not considered to be prohibited wastes. "De minimis" is defined as losses from normal material handling operations (e.g., spills from the unloading or transfer of materials from bins or other containers, or leaks from pipes, valves, or other devices used to transfer materials); minor leaks of process equipment, storage tanks, or containers; leaks from well-maintained pump packings and seals; sample purging; and relief device discharges; discharges from safety showers and rinsing and cleaning of personal safety equipment; and rinsate from empty containers or from containers that are rendered empty by that rinsing.
 - 5) Land disposal prohibitions for hazardous characteristic wastes do not apply to laboratory wastes displaying the characteristic of ignitableility (D001), and corrosiveity (D002), or organic toxicity (D012 through D043) laboratory wastes containing underlying hazardous constituents from laboratory operations, that are mixed with other plant wastewaters at facilities whose ultimate discharge is subject to regulations under the CWA (including wastewaters at facilities which that have eliminated the discharge of wastewater), provided that the annualized flow of laboratory wastewater into the facility's headwork does not exceed one percent, or provided that the laboratory wastes' combined annualized average concentration does not exceed one part per million in the facility's headworks.
- f) This Part is cumulative with the land disposal restrictions of 35 Ill. Adm. Code 729. The Environmental Protection Agency (Agency) shall not issue a wastestream authorization pursuant to 35 Ill. Adm. Code 709 or Sections 22.6 or 39(h) of the Environmental Protection Act (Ill. Rev. Stat. 1987, ch. 1114, pars. 1022.6 or 1039(h))[415 ILCS 5/22.6 or 39.6] unless the waste meets the requirements of this Part as well as 35 Ill. Adm. Code 729.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 728.102 Definitions

When used in this Part, the following terms have the meanings given below. All other terms have the meanings given under 35 Ill. Adm. Code 702.110,

720.102, or 721.103.

"Agency" means the Illinois Environmental Protection Agency.

"Board" means the Illinois Pollution Control Board.

"CERCLA" means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq.)

"Debris" means solid material exceeding a 60 mm particle size that is intended for disposal and that is: <u>Aa</u> manufactured object; or plant or animal matter; or natural geologic material. However, the following materials are not debris: <u>Aa</u>ny material for which a specific treatment standard is provided in 728.Subpart D<u>, namely</u> <u>lead acid batteries, cadmium batteries, and radioactive lead</u> <u>solids; Pprocess residuals, such as smelter slag and residues from</u> the treatment of waste, wastewater, sludges, or air emission residues; and intact containers of hazardous waste that are not ruptured and that retain at least 75% of their original volume. A mixture of debris that has not been treated to the standards provided by Section 728.145 of this Part and other material is subject to regulation as debris if the mixture is comprised primarily of debris, by volume, based on visual inspection.

"Halogenated organic compounds" or "HOCs" means those compounds having a carbon-halogen bond which<u>that</u> are listed under Section 728.Appendix C.

"Hazardous constituent or constituents" means those constituents listed in 35 Ill. Adm. Code 721.Appendix H.

"Hazardous debris" means debris that contains a hazardous waste listed in 35 Ill. Adm. Code 721.Subpart $D_{\mathcal{T}}$ or that exhibits a characteristic of hazardous waste identified in 35 Ill. Adm. Code 721.Subpart C.

Inorganic Solid Debris are nonfriable inorganic solids that are incapable of passing through a 9.5 mm standard sieve₇ and that require cutting₇ or crushing and grinding₇ in mechanical sizing equipment prior to stabilization, limited to the following inorganic or metal materials:

Metal slags (either dross or scoria).

Glassified slag.

Glass.

Concrete (excluding cementitious or pozzolanic stabilized hazardous wastes).

Masonry and refractory bricks.

Metal cans, containers, drums, or tanks.

Metal nuts, bolts, pipes, pumps, valves, appliances, or industrial equipment.

Scrap metal, as defined in 35 Ill. Adm. Code 721.101(c)(6).

"Land disposal" means placement in or on the land, except in a corrective action management unit, and includes, but is not

limited to, placement in a landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome formation, salt bed formation, underground mine, or cave, or placement in a concrete vault or bunker intended for disposal purposes.

"Nonwastewaters" are wastes that do not meet the criteria for "wastewaters" in this Section.

"Polychlorinated biphenyls" or "PCBs" are halogenated organic compounds defined in accordance with 40 CFR 761.3, incorporated by reference in 35 Ill. Adm. Code 720.111.

"ppm" means parts per million.

"RCRA corrective action" means corrective action taken under 35 Ill. Adm. Code 724.200 or 725.193, 40 CFR 264.100 or 265.93 (199<u>24</u>), or similar regulations in other States with RCRA programs authorized by U.S. EPA pursuant to 40 CFR 271 (199<u>24</u>).

"Underlying hazardous constituent" means any regulated constituent <u>listed in Section 728.Table U, "Universal Treatment Standards</u> <u>(UTS)", except vanadium and zinc, that can reasonably be expected</u> <u>to be present, at the point of generation of the hazardous waste,</u> at <u>levelsa concentration</u> above the F039-constituent-specific <u>UTS</u> treatment standard-at the point of generation of the hazardous waste.

"U.S. EPA" or "USEPA" means the United States Environmental Protection Agency.

"Wastewaters" are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS), with the following exceptions:

F001, F002, F003, F004, <u>and</u> F005 solvent-water mixtures that contain less than 1% by weight TOC or less than 1% by weight total F001, F002, F003, F004, <u>and</u> F005 solvent constituents listed in Table A.

K011, K013, <u>and K014</u> wastewaters (as generated) that contain less than 5% by weight TOC and less than 1% by weight TSS.

K103 and K104 wastewaters that contain less than 4% by weight TOC and less than 1% by weight TSS.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 728.107 Waste Analysis and Recordkeeping

a) Except as specified in Section 728.132, where a generator's waste is listed in 35 Ill. Adm. Code 721.Subpart D or if the waste exhibits one or more of the characteristics set out at 35 Ill.
 Adm. Code 721.Subpart C, the generator shall test its waste, or test an extract using the Toxicity Characteristic Leaching Procedure, Method 1311, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", U.S. EPA Publication SW-846, as incorporated by reference in 35 Ill. Adm. Code 720.111, or use knowledge of the waster to determine if the waste is restricted from land disposal under this Part. Except as specified in Section 728.132, if a generator's waste exhibits one or more of the characteristics set out at 35 Ill. Adm. Code 721.Subpart C,

the generator shall test an extract using the EP Toxicity Test, Method 1310, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", U.S. EPA Publication SW-846, as incorporated by reference in 35 Ill. Adm. Code 720.111, or use knowledge of the waste, to determine if the waste is restricted from land disposal under this Part. If the generator determines that its waste displays the characteristic of ignitability (D001) (and is not in the High TOC Ignitable Liquids Subcategory or is not treated by INCIN, FSUBS, CMBST or RORGS of Section 728. Table C of this Part), or the waste displays the characteristic orf corrosivity (D002), and is prohibited under Section 728.137, or the waste displays the characteristic of organic toxicity (D012-D043) and is prohibited under Section 728.138, the generator shall determine what underlying hazardous constituents (as defined in Section 728.102-of-this Part), are reasonably expected to be present in the D001, or D002, or D012 through D043 waste.

- 1) If a generator determines that the generatorit is managing a restricted waste under this Part and determines that the waste does not meet the applicable treatment standards set forth in <u>728.</u>Subpart D of this Part or exceeds the applicable prohibition levels set forth in Section 728.132 or 728.139, with each shipment of waste the generator shall notify the treatment or storage facility in writing of the appropriate treatment standard set forth in Subpart D of this Part and any applicable prohibition levels set forth in Subpart D of this Part and any applicable prohibition levels set forth in notice must include the following information:
 - A) U.S. EPA hazardous waste number;
 - B) The corresponding treatment standardswaste constituents that the treater will monitor, if monitoring will not include all regulated constituents, for wastes F001 through F005, F039, D001, D002, D012 through D043, and wastes prohibited pursuant to Section 728.132 or Section 3004(d) of the Resource Conservation and Recovery Act, referenced in Section 728.139. -- Treatment standards for all other restricted wastes must either be included, or be referenced by including on the notification the applicable wastewater (as defined in Section 728.102(f)) or nonwastewater (as defined in Section 728.102(d)) category, the applicable subcategory made within a waste code based on waste-specific criteria (such as D003 reactive cyanides), and the Sections and subsections where the applicable treatment standard appears. Where the applicable treatment standards are expressed as specified technologies in Section 728.142, the applicable five-letter treatment code found in Section 728. Table C (e.g., INCIN, WETOX) also must be listed on the notification. The generator must also include whether the waste is a nonwastewater or wastewater (as defined in Section 728.102 (d) and (f)) and indicate the subcategory of the waste (such as "D003 reactive cyanide") if applicable;

 - D) For hazardous debris, the contaminants subject to treatment, as provided by Section 728.145(b), and the

following statement: "This hazardous debris is subject to the alternative treatment standards of 35 Ill. Adm. Code 728.145;-and

- E) Waste analysis data, where available .; and
- F) The date on which the waste is subject to the prohibitions.
- 2) If a generator determines that the generatorit is managing a restricted waste under this Part, and determines that the waste can be land disposed without further treatment, with each shipment of waste the generator shall submit, to the treatment, storage, or land disposal facility, a notice and a certification to the treatment, storage, or land disposal facility stating that the waste meets the applicable treatment standards set forth in <u>728</u>.Subpart D of this Part and <u>setting forth</u> the applicable prohibition levels set forth in Section 728.132 or <u>RCRA Section 3004(d)</u>, referenced in Section 728.139. A generators of hazardous waste under 35 Ill. Adm. Code 721.103(e<u>e</u>)(2), 35 Ill. Adm. Code 728.103(f)(2), andor 35 Ill. Adm. Code 720.122 (i.e. debris that is delisted), however, areis not subject to these notification and certififcation requirements.
 - A) The notice must include the following information:
 - i) U.S. EPA hazardous waste number;
 - ii) The corresponding treatment standardswaste constituents that the treater will monitor, if monitoring will not include all regulated constituents, for wastes F001 through F005, F039, D001, D002, D012 through D043, and wastes prohibited pursuant to Section 728.132 or Section 3004(d) of the Resource Conservation and Recovery Act, referenced in Section 728.139. Treatment standards for all other restricted wastes must either be included or referenced by including on the notification the applicableThe generator must also include whether the waste is a wastewater or nonwastewater (as defined in Section 728.102(d) and (f) - category, and indicate the subcategory of the wasteapplicable subdivisions made within a waste code based on waste-specific criteria (such as D003, reactive cyanides), and the Section and subsection where the applicable treatment standard appears if applicable. Where the applicable treatment standards are expressed as specified technologies in Section 728.142, the applicable five-letter treatment code found in Section 728.Table C (e.g., INCIN, WETOX) also must be listed on the notification.;
 - iii) The manifest number associated with the shipment of waste; <u>and</u>
 - iv) Waste analysis data, where available.
 - B) The certification must be signed by an authorized

representative and must state the following:

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 35 Ill. Adm. Code 728.Subpart D and all applicable prohibitions set forth in 35 Ill. Adm. Code 728.132, 728.139, or Section 3004(d) of the Resource Conservation and Recovery Act. I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

- 3) If a generator's waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under Section 728.105, an exemption under Section 728.106, an extension under Section 728.101(c)(3), or a nationwide capacity variance under 40 CFR 268.Subpart C (19924)), with each shipment of waste, the generator shall submit a notice with each shipment of the waste to the facility receiving the generator's waster stating that the waste is not prohibited from land disposal. The notice must include the following information:
 - A) U.S. EPA hazardous waste number+;
 - The corresponding treatment standardswaste constituents that the treater will monitor, if B) monitoring will not include all regulated constituents, for wastes F001 through F005, F039, D001, D002, and D012 through D043 and wastes prohibited pursuant to Section 728.132 or Section 3004(d) of the Resource Conservation and Recovery Act, referenced in Section 728.139. Treatment standards for all other restricted wastes must either be included or be referenced by including on the notification the , and the Section and subsection where the applicable treatment standard appears. Where the applicable treatment standards are expressed as specified technologies in Section 728.142, the applicable fiveletter treatment code found in Section 728. Table C (e.g., INCIN, WETOX) also must be listed on the notification. The generator must also include whether the waste is a nonwastewater or wastewater (as defined in Section 728.102(d) and (f)), and indicate the subcategory of the waste (such as "D003 reactive cyanide"), if applicable;
 - C) The manifest number associated with the shipment of waste;
 - D) Waste analysis data, where available;
 - E) For hazardous debris, twhen using the alternative treatment technologies provided by Section 728.145:
 - <u>i)</u> <u>The contamineanets subject to treatment</u>, as provided by Section 728.145(b);

- ii) An indication that these contaminants are being treated to comply with Section 728.145 and the following statement: "This hasardous debris is subject to the alternative treatment standards of 35 Ill. Adm. Code 728.145"; and
- F) For hazardous debris when using the treatment standards for the contaminating waste(s) in Section 728.140: the requirements described in subsections (a)(3)(A) through (a)(3)(D) above and subsection (a)(3)(G) below; and,
- FG) The date <u>on which</u> the waste is subject to the prohibitions.
- 4) If a generator is managing a prohibited waste in tanks, or containers, or containment buildings regulated under 35 Ill. Adm. Code 722.1347 and is treating such waste in such tanks, containers, or containment buildings to meet applicable treatment standards under <u>728.</u>Subpart D of this Part, the generator shall develop and follow a written waste analysis plan that describes the procedures the generator will carry out to comply with the treatment standards. (A generator treating hazardous debris under the alternative treatment standards of Section 728.Table F, however, is not subject to these waste analysis requirements.) The plan must be kept on-site in the generator's records, and the following requirements must be met:
 - A) The waste analysis plan must be based on a detailed chemical and physical analysis of a representative sample of the prohibited wastes being treated, and <u>it</u> <u>must</u> contain all information necessary to treat the wastes in accordance with the requirements of this Part, including the selected testing frequency.
 - B) Such plan must be filed with the Agency a minimum of 30 days prior to the treatment activity, with delivery verified.
 - C) Wastes shipped off-site pursuant to this subsection must comply with the notification requirements of Section 728.107(a)(2).
- 5) If a generator determines whether the waste is restricted based solely on the generator's knowledge of the waste, the generator shall retain all supporting data used to make this determination on-site in the generator's files. If a generator determines whether the waste is restricted based on testing the waste or an extract developed using the test method described in Section 728.Appendix A, the generator shall retain all waste analysis data on site in the generator'sits files.
- 6) If a generator determines, subsequent to the time of generation, that the generatorit is managing a restricted waste that is excluded from the definition of hazardous or solid waste or exempt from regulation as a RCRA hazardous waste under 35 Ill. Adm. Code 721.102 through 721.106, the generator shall place, in the facility's file, a one-time notice stating such generation, the subsequent exclusion from the definition of hazardous or solid waste or exemption

from regulation as a RCRA hazardous waste, and the disposition of the waste.

- A gGenerators shall retain on-site a copy of all notices, 7) certifications, demonstrations, waste analysis data, and other documentation produced pursuant to this Section for at least five years from the date that the waste that is the subject of such documentation was last sent to on-site or off-site treatment, storage, or disposal. The five year record retention period is automatically extended during the course of any unresolved enforcement action regarding the regulated activity, or as requested by the Agency. The requirements of this subsection apply to solid wastes even when the hazardous characteristic is removed prior to disposal, or when the waste is excluded from the definition of hazardous or solid waste under 35 Ill. Adm. Code 721.102 through 721.106, or when the waste is exempted from regulation as a RCRA hazardous waste subsequent to the point of generation.
- 8) If a generator is managing a lab pack that contains wastes identified in Section 728.Appendix D and wishes to use the alternative treatment standard under Section 728.142(c), with each shipment of waste the generator shall submit a notice to the treatment facility in accordance with subsection (a)(1) above, except that underlying hazardous constituents need not be determined. The generator shall also comply with the requirements in subsections (a)(5) and (a)(6) above and shall submit the following certification, which must be signed by an authorized representative:

I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack <u>does not</u> contains only<u>any of</u> the wastes specifiedidentified in 35 Ill. Adm. Code 728.Appendix D-or solid wastes not subject to regulation under 35 Ill. Adm. Gode 721. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

9) If a generator is managing a lab pack that contains organic wastes specified in Section 728.Appendix E and wishes to use the alternate treatment standards under Section 728.142, with each shipment of waste the generator shall submit a notice to the treatment facility in accordance with subsection (a)(1) above. The generator also shall comply with the requirements in subsections (a)(5) and (a)(6) above and shall submit the following certification that must be signed by an authorized representative:This subsection corresponds with 40 CFR 268.7(a)(9), marked "reserved" by U.S. EPA at 59 Fed. Reg. 48045 (Sept. 19, 1994). This statement maintains structural consistency with federal regulations.

> I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste and that the lab pack contains only organic waste opecified in 35 Ill. Adm. Code 728.Appendix E or solid wastes not subject to regulation under 35 Ill. Adm. Code 721. I am aware that there are significant penalties for submitting a false certification,

including the possibility of fine or imprisonment.

- 10) Small quantity generators with tolling agreements pursuant to 35 Ill. Adm. Code 722.120(e) shall comply with the applicable notification and certification requirements of subsection (a) above for the initial shipment of the waste subject to the agreement. Such generators shall retain onsite a copy of the notification and certification, together with the tolling agreement, for at least three years after termination or expiration of the agreement. The three-year record retention period is automatically extended following notification pursuant to Section 31(d) of the Environmental Protection Act₇ until either any subsequent enforcement action is resolved₇ or <u>until</u> the Agency notifies the generator documents need not be retained.
- b) Treatment facilities shall test their wastes according to the frequency specified in their waste analysis plans, as required by 35 Ill. Adm. Code 724.113 or 725.113. Such testing must be performed as provided in subsections (b)(1), (b)(2), and (b)(3) below.
 - 1) For wastes with treatment standards expressed as concentrations in the waste extract (Section 728.141), the owner or operator of the treatment facility shall test the treatment residues or an extract of such residues developed using the test method described in Section 728.Appendix A to assure that the treatment residues or extract meet the applicable treatment standards.
 - 2) For wastes prohibited under Section 728.132 or 728.139 that are not subject to any treatment standards under <u>728.</u>Subpart D of this Part, the owner or operator of the treatment facility shall test the treatment residues according to the generator testing requirements specified in Section 728.132 to assure that the treatment residues comply with the applicable prohibitions.
 - 3) For wastes with treatment standards expressed as concentrations in the waste (Section 728.143), the owner or operator of the treatment facility shall test the treatment residues (not an extract of such residues) to assure that the treatment residues meet the applicable treatment standards.
 - 4) A notice must be sent with each waste shipment to the land disposal facility that includes the following information, except that debris excluded from the definition of the hazardous waste under Section35 Ill. Adm. Code 7281.103(fe)(2) (i.e., debris treated by an extraction or destruction technology provided by Section 728.Table F, and debris that is delisted) is subject to the notififcation and certification requirments of subsection (d) below rather than these notification requirments:
 - A) U.S. EPA hazardous waste number;
 - B) The corresponding treatment standardswaste constituents to be monitored, if monitoring will not include all regulated constituents, for wastes F001 through F005, F039, <u>D001</u>, <u>D002</u>, <u>D012</u> through <u>D043</u>, and wastes prohibited pursuant to Section 728.132 or

Section 3004(d) of the Resource Conservation and Recovery Act, referenced in Section 728.139, and for underlying hazardous constituents (as defined in Section 728.102 of this Part), in D001 and D002 wastes if those wastes are prohibited under Section 728.137 of this Part. Treatment standards for all other restricted wastes must either be included, or be referenced by including on the notification the applicableThe generator must also include whether the waste is a nonwastewater or wastewater (as defined in Section 728.102(d) or (f)), and indicate the subcategory of the waste or nonwastewater (as defined in Section 728.102(d)) category, the applicable subdivisions made within a waste code based on wastespecific criteria (such as D003 reactive cyanides), and the Scotions and subscotions where the applicable treatment standard appears if applicable; . Where the applicable treatment standards are expressed as specified technologies in Section 728.142, the applicable five-letter treatment code found in Section 728.Table C (e.g., INCIN, WETOX) also must be listed on the notification.

- C) The manifest number associated with the shipment of waste; and
- D) Waste analysis data, where available.
- 5) The treatment facility <u>owner or operator</u> shall submit a certification with each shipment of waste or treatment residue of a restricted waste to the land disposal facility stating that the waste or treatment residue has been treated in compliance with the treatment standards specified in <u>728.</u>Subpart D of this Part and the applicable prohibitions set forth in Section 728.132 or 728.139. Debris excluded from the definiton of hazardous waste under Section35 Ill. Adm. Code 7281.103(fe)(2) (i.e., debris treated by an extraction or destruction technology provided by Section 728.Table F, and debris that is delisted), however, is subject to the notififcation and certication requirements of subsection (d) below rather than the certification requirements of this subsection.
 - A) For wastes with treatment standards expressed as concentrations in the waste extract or in the waste (Sections 728.141 or 728.143), or for wastes prohibited under Section 728.132 or 728.139 that are not subject to any treatment standards under <u>728.Subpart D-of this Part</u>, the certification must be signed by an authorized representative and must state the following:

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly, so as to comply with the performance levels specified in 35 Ill. Adm. Code 728.Subpart D and all applicable prohibitions set forth in 35 Ill. Adm. Code 728.132 or 728.139 or Section 3004(d) of the Resource Conservation and Recovery Act without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

B) For wastes with treatment standards expressed as technologies (Section 728.142), the certification must be signed by an authorized representative and must state the following:

> I certify under penalty of law that the waste has been treated in accordance with the requirements of 35 Ill. Adm. Code 728.142. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

- C)
 - For wastes with treatment standards expressed as concentrations in the waste pursuant to Section 728.143, if compliance with the treatment standards in <u>728.</u>Subpart D-of-this Part is based in part or in whole on the analytical detection limit alternative specified in Section 728.143(c), the certification also must state the following:

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 35 Ill. Adm. Code 724. Subpart O or 35 Ill. Adm. Code 725.Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

D) For characteristic wastes D001, D002, and D012 through D043 that are subject to the treatment standards in Section 728.140 (other than those expressed as a required method of treatment), that are reasonably expected to contain underlying hazardous constituents as defined in Section 728.102(i), that are treated onsite to remove the hazardous characteristic, and that are then sent off-site for treatment of underlying hazardous constituents, the certification must state the following:

I certify under penalty of law that the waste

has been treated in accordance with the requirements of 35 Ill. Adm. Code 728.140 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

- 6) If the waste or treatment residue will be further managed at a different treatment or storage facility, the treatment, storage, or disposal facility sending the waste or treatment residue off-site must comply with the notice and certification requirements applicable to generators under this Section.
- 7) Where the wastes are recyclable materials used in a manner constituting disposal subject to the provisions of 35 Ill. Adm. Code 726.120(b), regarding treatment standards and prohibition levels, the owner or operator of a treatment facility (i.e. the recycler) is not required to notify the receiving facility pursuant to subsection (b)(4) above. With each shipment of such wastes the owner or operator of the recycling facility shall submit a certification described in subsection (b)(5) above and a notice that includes the information listed in subsection (b)(4) above (except the manifest number) to the Agency. The recycling facility also shall keep records of the name and location of each entity receiving the hazardous waste-derived product.
- c) Except where the owner or operator is disposing of any waste that is a recyclable material used in a manner constituting disposal pursuant to 35 Ill. Adm. Code 726.120(b), the owner or operator of any land disposal facility disposing any waste subject to restrictions under this Part shall:
 - Have copies of the notice and certification specified in subsection (a) or (b) above and the certification specified in Section 728.108, if applicable.
 - 2) Test the waste, or an extract of the waste or treatment residue developed using the test method described in Section 728.Appendix A or using any methods required by generators under Section 728.132, to assure that the wastes or treatment residues areis in compliance with the applicable treatment standards set forth in <u>728.Subpart D of this Part</u> and all applicable prohibitions set forth in Sections 728.132 or 728.139. Such testing must be performed according to the frequency specified in the facility's waste analysis plan as required by 35 Ill. Adm. Code 724.113 or 725.113.
 - 3) Where the owner or operator is disposing of any waste that is subject to the prohibitions under Section 728.133(f) but not subject to the prohibitions set forth in Section 728.132, the owner or operator shall ensure that such waste is the subject of a certification according to the requirements of Section 728.108 prior to disposal in a landfill or surface impoundment unit, and that such disposal is in accordance with the requirements of Section 728.105(h)(2). The same requirement applies to any waste

that is subject to the prohibitions under Section 728.133(f) and also is subject to the statutory prohibitions in the codified prohibitions in Section 728.139 or Section 728.132.

- 4) Where the owner or operator is disposing of any waste that is a recyclable material used in a manner constituting disposal subject to the provisions of 35 Ill. Adm. Code 726.120(b), the owner or operator is not subject to subsections (c)(1) through (c)(3) above with respect to such waste.
- d) <u>A generators or treaters that first claims</u> that hazardous debris is excluded from the definition of hazardous waste under 35 Ill. Adm. Code 72<u>81</u>.103(fe)(2) (i.e., debris treated by an extraction or destruction technology provided by Section 728.Table F, and debris that has been delisted) areis subject to the following notification and certification requirements:
 - A one-time notification must be submitted to the Agency including the following information:
 - A) The name and address of the RCRA Subtitle D <u>(municipal solid waste landfill)</u> facility receiving the treated debris;
 - B) A description of the hazardous debris as initially generated, including the applicable U.S. EPA hazardous waste numbers; and
 - C) For debris excluded under 35 Ill. Adm. Code 728.103(f)(2), the technology from Section 728.Table F_{T} used to treat the debris.
 - 2) The notification must be updated if the debris is shipped to a different facility, and, for debris excluded 35 Ill. Adm. Code 721.2(d)(1), if a different type of debris is treated or if a different technology is used to treat the debris.
 - 3) For debris excluded under 35 Ill. Adm. Code 728.103(f)(2), the owner or operator of the treatment facility shall document and certify compliance with the treatment standards of Section 728.Table F, as follows:
 - A) Records must be kept of all inspections, evaluations, and analyses of treated debris that are made to determine compliance with the treatment standards;
 - B) Records must be kept of any data or information the treater obtains during treatment of the debris that identifies key operating parameters of the treatment unit; and
 - C) For each shipment of treated debris, a certification of compliance with the treatment standards must be signed by an authorized representative and placed in the facility's files. The certification must state the following: "I certify under penalty of law that the debris has been treated in accordance with the requirements of 35 Ill. Adm. Code 728.145. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

(Source: Amended at 19 Ill. Reg. ____, effective ______ Section 728.109 Special Rules for Characteristic Wastes

- Section 728.109 Special Rules for Characteristic Wastes
 - The initial generator of a solid waste shall determine each U.S. a) EPA hazardous waste number (waste code) applicable to the waste in order to determine the applicable treatment standards under 728. Subpart D of this Part. For purposes of this Part, the waste must carry the waste code for any applicable listing under 35 Ill. Adm. Code 721.Subpart D. In addition, the waste must carry one or more of the waste codes under 35 Ill. Adm. Code 721.Subpart C where the waste exhibits the relevant a characteristic, except in the case when the treatment standard for the waste code listed in 35 Ill. Adm. Code 721.Subpart D operates in lieu of the standard for the waste code under 35 Ill. Adm. Code 721.Subpart C, as specified in subsection (b) below. If the generator determines that its waste displays the characteristic of ignitability (D001) (and is not in the High TOC Ignitable Liquids Subcategory or is not treated by INCIN, FSUBS, CMBST or RORGS of Section 728. Table G of this Part), or that its waste displays the characteristic of corrosivity (D002) and is prohibited under Section 728.137, or that its waste displays the characteristic of toxicity (D012 through D043) and is prohibited under Section 728.138, the generator shall determine what underlying hazardous constituents (as defined in Section 728.102) are reasonably expected to be present in the D001, or D002, or D012 through D043 waste.
 - b) Where a prohibited waste is both listed under 35 Ill. Adm. Code 721.Subpart D and exhibits a characteristic under 35 Ill. Adm. Code 721.Subpart C, the treatment standard for the waste code listed in 35 Ill. Adm. Code 721.Subpart D will operate in lieu of the standard for the waste code under 35 Ill. Adm. Code 721.Subpart C, provided that the treatment standard for the listed waste includes a treatment standard for the constituent that causes the waste to exhibit the characteristic. Otherwise, the waste must meet the treatment standards for all applicable listed and characteristic waste codes.
 - c) In addition to any applicable standards determined from the initial point of generation, no prohibited waste which that exhibits a characteristic under 35 Ill. Adm. Code 721.Subpart C shall be land disposed unless the waste complies with the treatment standards under <u>728.</u>Subpart D of this Part.
 - d) <u>A wWastes that exhibits</u> a characteristic areis also subject to Section 728.107 requirements, except that once the waste is no longer hazardous, a one time notification and certification must be placed in the generator's or treater's files and sent to the Agency. The notification and certification that is placed in the generator's or treater's files must be updated if the process or operation generating the waste changes or if the subtitle D facility receiving the waste changes. However, the generator or treater need only notify the Agency on an annual basis if such changes occur. Such notification and certification should be sent to the Agency by the end of the year, but no later than December 31.
 - 1) The notification must include the following information:
 - A) The name and address of the non-RCRA Subtitle D hazardous waste (municipal solid waste landfill) facility receiving the waste shipment; and

)

B) A description of the waste as initially generated, including the applicable U.S. EPA hazardous waste numbers, the applicable wastewater or nonwastewatertreatability group(s), and the underlying hazardous constituents (as defined in Section 728.102(i)) category, and the subdivisions made within a waste code based on waste-specific criteria (such as D003, reactive cyanides); in D001 and D002 wastes prohibited under Section 728.137 or D012 through D043 wastes prohibited under Section 728.138.

C) The treatment standards applicable to the waste at the initial point of generation.

2) The certification must be signed by an authorized representative and must state the language found in Section 728.107(b)(5)(A). If treatment removes the characteristic but does not treat underlying hazardous constituents, then the certification found in Section 728.107(b)(5)(D) applies.

(Source: Amended at 19 Ill. Reg. , effective)

SUBPART C: PROHIBITION ON LAND DISPOSAL

Section 728.130 Waste Specific Prohibitions--Solvent Wastes

- a) The spent solvent wastes specified in 35 Ill. Adm. Code 721.131 as U.S. EPA Hazardous Waste Numbers F001, F002, F003, F004, and F005 are prohibited under this Part from land disposal (except in an injection well) unless one or more of the following conditions apply:
 - The generator of the solvent waste is a small quantity generator of 100 to 1000 kilograms of hazardous waste per month;—or
 - 2) The solvent waste is generated from any response action taken under CERCLA or from RCRA corrective action_ τ except where the waste is contaminated soil or debris; $-\Theta r$
 - 3) The initial generator's solvent waste is a solvent-water mixture, solvent-containing sludge or solid, or solventcontaminated soil (non-CERCLA or non-RCRA corrective action) containing less than 1 percent total F001 through F005 solvent constituents listed in Table AT+; or
 - 4) The solvent waste is a residue from treating a waste described in subsections (a)(1), (a)(2), or (a)(3) <u>abover</u>, or the solvent waste is a residue from treating a waste not described in subsections (a)(1), (a)(2), or (a)(3), provided such residue belongs to a different treatability group than the waste as initially generated and wastes belonging to such treatability group are described in subsection (a)(3).
- b) The F001 through F005 solvent wastes listed in subsections (a)(1),
 (a)(2), (a)(3), or (a)(4) above are prohibited from land disposal.
- c) <u>Effective November 8, 1990, t</u>he F001 through F005 solvent wastes whichthat are contaminated soil and debris resulting from a CERCLA response or RCRA corrective action or the residue from treatment of these wastes are prohibited from land disposal. <u>Until November</u>

8, 1990, these wastes may be disposed in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in 40 CFR 268.5(h)(2), incorporated by reference in Section 728.105.

- d) The requirements of subsections (a), (b), and (c) above do not apply if:
 - 1) The wastes meet the standards of <u>728.</u>Subpart D; or
 - 2) Persons have been granted aAn exemption (adjusted standard) was granted from a prohibition pursuant to a petition under Section 728.1067 with respect to those wastes and units and the activity is covered by the petition; or
 - 3) Persons have been granted an extension to the effective date of a prohibition by U.S. EPA pursuant to Section 728.105 τ with respect to those wastes and units and the activity is covered by the extension.

(Source: Amended at 19 Ill. Reg. ____, effective _____) Section 728.133 Waste Specific Prohibitions:____First Third Wastes

a) The wastes specified in 35 Ill. Adm. Code 721.132 as U.S. EPA hazardous wastes numbers listed below are prohibited from land disposal (except in an injection well).

F006 K001	(nonwastewater)
K004	wasted apprication and the making
K004	wastes specified in Sections 728.1430(a) and 728.Table $\frac{BT}{2}$
K008	wastes specified in Sections 728.1430(a) and 728.Table BT
K015	-
K016	
K018	
K019	
K020	
K020 K021	water specified in Section Sections 729 1420(a) and
KU21	wastes specified in Section Sections 728.1430(a) and 728.Table BT
K022	(nonwastewater)
K024	
K025	nonwastewaters specified in Sections 728.1430(a) and
	728.Table BT
козо	
к036	(nonwastewater)
K037	(
K044	
K045	(nonexplosive)
K045 K046	(nonwastewater)
K040 K047	(nonwastewater)
K047 K060	
	(nonwastewater)
K061	(nonwastewaters containing less than 15% zinc)
K062	(non CaSO ₄)
K069	(nonwastewater)
K086	(solvent washes),
K087	
K099	
K100	nonwastewaters specified in Sections 728.1430(a) and
	<u>728.</u> Table BT
K101	(wastewater)

- b) The waste specified in 35 Ill. Adm. Code 721.132 as U.S. EPA Hazardous Waste No. K071 is prohibited from land disposal.
- c) The wastes specified in Section 728.110 having a treatment standard in <u>728.</u>Subpart D based on incineration and which are contaminated soil and debris are prohibited from land disposal.
- e) The requirements of subsection (a), (b), and (c), above, do not apply if:
 - The wastes meets the applicable standards specified in <u>728.Subpart D; or</u>
 - 2) Persons have been granted $a\underline{A}n$ adjusted standard was granted pursuant to Section 728.1067 with respect to those wastes and units, and the activity is covered by the petitionadjusted standard; or
 - 3) Persons have been granted an extension to the effective date of a prohibition by U.S. EPA pursuant to Section 728.105 τ with respect to those wastes and units and the activity is covered by the extension.
- f) This subsection corresponds with 40 CFR 268.33(f), a provision whose effectiveness has expired. This statement maintains structural consistency with U.S. EPA regulations.
- g) To determine whether a hazardous waste listed in Section 728.110 exceeds the applicable treatment standards specified in Sections 728.131, and 728.1430, and 728.Table T, the initial generator shall test a representative sample of the waste extract or the entire waste depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable <u>728.Subpart D</u> levels, the waste is prohibited from land disposal and all requirements of this Part are applicable except as otherwise specified.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 728.138 Waste-Specific Prohibitions: Newly-Identified Organic Toxicity Characteristic Wastes and Newly-Listed Coke By-Product and Chlorotoluene Production Wastes

a) The wastes specified in 35 Ill. Adm. Code 721.132 as U.S. EPA hazardous waste numbers K141, K142, K143, K144, K145, K147, K148, K149, K150, and K151 are prohibited from land disposal. In addition, debris contaminated with U.S. EPA hazardous waste numbers F037, F038, K107 through K112, K117, K118, K123 through K126, K131, K132, K136, U328, U353, U359 and soil and debris contaminated with D012 through D043, K141 through K145, and K147 through K151 are prohibited from land disposal. The following wastes that are specified in the table at 35 Ill. Adm. Code 721.124(b) as U.S. EPA hazardous waste numbers D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, and D043 that are not radioactive, that are managed in systems other than those whose discharge is regulated under the federal Clean Water Act (CWA; 33 U.S.C. §§ 1251 et seq.), that are zero dischargers that do not engage in CWA-equivalent treatment before ultimate land disposal, or that are injected in Class I deep wells regulated under the Safe Drinking Water Act (SDWA) are prohibited from land disposal. "CWA-equivalent treatment", as used in this Section, means biological treatment for organics, alkaline chlorination or ferrous sulfate precipitation for cyanide, precipitation and sedimentation for metals, reduction for hexavalent chromium, or another treatment technology that can be demonstrated to perform equally to or better than these technologies.

- b) On September 19, 1996, radioactive wastes that are mixed with any of U.S. EPA hazardous waste number D018 through D043 waste that are managed in systems other than those whose discharge is regulated under the Clean Water Act (CWA), in systems that inject in Class I deep wells regulated under the Safe Drinking Water Act (SDWA), or in systems that are zero dischargers that engage in CWA-equivalent treatment, as defined in subsection (a) above, before ultimate land disposal are prohibited from land disposal. Radioactive wastes mixed with any of U.S. EPA hazardous waste number K141 through K145 and K147 through K151 are also prohibited from land disposal. In addition, soil and debris contaminated with these radioactive mixed wastes are prohibited from land disposal.
- <u>c)</u> Between December 19, 1994 and September 19, 1996, the wastes included in subsection (b) above may be disposed in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in Section 728.105(h)(2).
- <u>d)</u> The requirements of subsections (a), (b), and (c) above do not apply if:
 - 1) The wastes meet the applicable treatment standards specified in 728.Subpart D;
 - 2) Persons have been granted an exemption from a prohibition pursuant to a petition under Section 728.106, with respect to those wastes and units covered by the petition;
 - 3) The wastes meet the applicable alternate treatment standards established pursuant to a petition granted under Section 728.144;
 - 4) Persons have been granted an extension to the effective date of a prohibition pursuant to Section 728.105, with respect to these wastes covered by the extension.
- e) To determine whether a hazardous waste identified in this section exceeds the applicable treatment standards specified in Sections 728.140 and 728.Table T, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable 728.Subpart D levels, the waste is prohibited from land

244

disposal and all requirements of this Part are applicable, except as otherwise specified.

(Source: Added at 19 Ill. Reg. ____, effective _____)

SUBPART D: TREATMENT STANDARDS

Section 728.140 Applicability of Treatment Standards

- A restricted waste identified in Section 728.141 may be land a) disposed only if an extract of the waste or of the treatment residue of the waste developed using Method 1311, the Toxicity Characteristic Leaching Procedure, does not exceed the value shown in Section 728. Table A for any hazardous constituent listed in Section 728. Table A for that waste, with the following exceptions. D004, D008, K031, K084, K101, K102, P010, P011, P012, P036, P038 and U136. These wastes may be land disposed only if an extract of the waste or of the treatment residue of the waste developed using either Method 1310, the Extraction Procedure Toxicity Test, or Method 1311, the Toxicity Characteristic Leaching Procedure, or the test method in Section 728. Appendix A does not exceed the concentration shown in Section 728. Table B for any hazardous constituent listed in Section 728. Table A for that waste. Methods 1310 and 1311 are both found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", U.S. EPA Publication SW-846, as incorporated by reference in 35 Ill. Adm. Code 720.111.A waste identified in Section 728. Table T, "Treatment Standards for Hazardous Wastes", may be land disposed only if it meets the requirements found in that Section. For each waste, Section 728. Table T identifies one of three types of treatment standard requirements:
 - 1) All hazardous constituents in the waste or in the treatment residue must be at or below the values found in that Section for that waste ("total waste standards");
 - 2) The hazardous constituents in the extract of the waste or in the extract of the treatment residue must be at or below the values found in that Section ("waste extract standards"); or
 - 3) The waste must be treated using the technology specified in that Section ("technology standard"), which is described in detail in Section 728.Table C, "Technology Codes and Description of Technology-Based Standards".
- b) A restricted waste for which a treatment technology is specified under Section 728.142(a) or hazardous debris for which a treatment technology is specified under Section 728.145 may be land disposed after it is treated using that specified technology or an equivalent treatment method approved by the Agency under the procedures set forth in Section 728.142(b). For waste displaying the characteristic of ignitability (D001) and reactivity (D003), that are diluted to meet the deactivation treatment standard in Section 728.Tables C and D (DEACT), the treater shall comply with the precautionary measures specified in 35 Ill. Adm. Code 724.117(b) and 35 Ill. Adm. Code 725.117(b).For wastewaters, compliance with concentration level standards is based on maximums for any one day, except for D004 through D011 wastes for which the previously promulgated treatment standards based on grab samples remain in effect. For all nonwastewaters, compliance with concentration level standards is based on grab sampling. For

wastes covered by the waste extract standards, the test Method 1311, the Toxicity Characteristic Leaching Procedure, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", U.S. EPA Publication SW-846, incorporated by reference in Section 720.111, must be used to measure compliance. An exception is made for D004 and D008, for which either of two test methods may be used: Method 1311 or Method 1310, the Extraction Procedure Toxicity Test, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", U.S. EPA Publication SW-846, incorporated by reference in Section 720.111. For wastes covered by a technology standard, the wastes may be land disposed after being treated using that specified technology or an equivalent treatment technology approved by the Agency pursuant to Section 728.142(b).

- c) Except as otherwise specified in Section 728.143(c), a restricted waste identified in Section 728.143 may be land disposed only if the constituent concentrations in the waste or treatment residue of the waste do not exceed the value shown in Section 728.Table B for any hagardous constituent listed in Section 728.Table B for that waste.When wastes with differing treatment standards for a constituent of concern are combined for purposes of treatment, the treatment residue must meet the lowest treatment standard for the constituent of concern.
- d) If a treatment standard has been established in Sections 728.141 through 728.143 for a hasardous waste that is itself subject to those standards rather than the standards for hasardous debris under Section 728.145. Notwithstanding the prohibitions specified in subsection (a) above, treatment and disposal facilities may demonstrate (and certify pursuant to 35 Ill. Adm. Code 728.107(b)(5)) compliance with the treatment standards for organic constituents specified by a footnote in Section 728.Table T, provided the following conditions are satisfied:
 - 1) The treatment standards for the organic constituents were established based on incineration in units operated in accordance with the technical requirements of 35 Ill. Adm. Code 724.Subpart O, or based on combustion in fuel substitution units operating in accordance with applicable technical requirements;
 - 2) The treatment or disposal facility has used the methods referenced in subsection (d)(1) above to treat the organic constituents; and
 - 3) The treatment or disposal facility may demonstrate compliance with organic constituents if qood-faith analytical efforts achieve detection limits for the regulated organic constituents that do not exceed the treatment standards specified in this Section and Section 728.Table T by an order of magnitude.
- e) For characteristic wastes (U.S. EPA hazardous waste numbers D001, D002, and D012 through D043 that are subject to treatment standards in Section 728.Table T, "Treatment Standards for Hazardous Wastes", all underlying hazardous constituents (as defined in Section 728.102(i)) must meet universal treatment standards, found in Sections 728.148 and 728.Table U prior to land disposal.
- f) The treatment standards for U.S. EPA hazardous waste numbers F001

through F005 nonwastewater constituents carbon disulfide, cyclohexanone, or methanol apply to wastes that contain only one, two, or three of these constituents. Compliance is measured for these constituents in the waste extract from test Method 1311, the Toxicity Characteristic Leaching Procedure found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", U.S. EPA Publication SW-846, incorporated by reference in Section 720.111. If the waste contains any of these three constituents along with any of the other 25 constituents found in U.S. EPA hazardous waste numbers F001 through F005, then compliance with treatment standards for carbon disulfide, cyclohexanone, or methanol are not required.

(Source: Amended at 19 Ill. Reg. , effective _____)

Section 728.141 Treatment Standards Expressed as Concentrations in Waste Extract

For the requirements previously found in this Section and for treatment standards in Section 728.Table A, "Table CCWE-Constituent Concentrations in Waste Extracts", refer to Section 728.140 and 728.Table T, "Treatment Standards for Hazardous Wastes".

- a) Section 728.Table A identifies the restricted wastes and the concentrations of their associated constituents that may not be exceeded by the extract of a waste or waste treatment residual extracted using Method 1311, the Toxicity Characteristic Leaching Procedure, for the allowable land disposal of such wastes. Compliance with these concentrations is required based upon grab samples, unless otherwise noted in Section 728.Table A. Method 1311 is found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", U.S. EPA Publication SW-846, as incorporated by reference in 35 Ill. Adm. Code 720.111.
- b) When wastes with differing treatment standards for a constituent of consern are combined for purposes of treatment, the treatment residue must meet the lowest treatment standard for the constituent of concern, except that mixtures of high and low zinc nonwastewater K061 are subject to the treatment standard for high sinc K061.
- e) The treatment standards for the constituents in F001 through F005 that are listed in Section 728.Table A only apply to wastes which contain one, two, or all three of these constituents. If the waste contains any of these three constituents along with any of the other 26 constituents found in F001 through F005, then only the treatments standards in Section 728.Table A are required.

(Source: Amended at 19 Ill. Reg. , effective _____)

Section 728.142 Treatment Standards Expressed as Specified Technologies

- a) The following wastes in subsections (a)(1) and (b)(2) below and Sections 728.Table $\exists T$, "Treatment Standards for Hazardous Wastes", for which standards are expressed as a treatment method rather than a concentration level, and 728.Table E must be treated using the technology or technologies specified in subsections (a)(1) and (a)(2) below and Section 728.Table $\exists T$.
 - 1) Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 50 ppm but less than 500 ppm must be incinerated in accordance with the technical requirements

of 40 CFR 761.70, incorporated by reference in 35 Ill. Adm. Code 720.111, or burned in high efficiency boilers in accordance with the technical requirements of 40 CFR 761.60. Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 500 ppm must be incinerated in accordance with the technical requirements of 40 CFR 761.70. Thermal treatment in accordance with this Section must be in compliance with applicable regulations in 35 Ill. Adm. Code 724, 725, and 726.

- 2) Nonliquid hazardous wastes containing halogenated organic compounds (HOCs) in total concentrations greater than or equal to 1000 mg/kg and liquid HOC-containing wastes that are prohibited under Section 728.132(e)(1) must be incinerated in accordance with the requirements of 35 Ill. Adm. Code 724.Subpart O or 35 Ill. Adm. Code 725.Subpart O. These treatment standards do not apply where the waste is subject to a treatment standard codified in <u>728.Subpart C-of this Part</u> for a specific HOC (such as a hazardous waste chlorinated solvent for which a treatment standard is established under Section 728.141(a)).
- 3) A mixture consisting of wastewater, the discharge of which is subject to regulation under 35 Ill. Adm. Code 309 or 310, and de minimis losses of materials from manufacturing operations in which these materials are used as raw materials or are produced as products in the manufacturing process, and that meets the criteria of the D001 ignitable liquids containing greater than 10% total organic constituents (TOC) subcategory, isare subject to the DEACT treatment standard described in Section 728. Table C. For purposes of this subsection, "de minimis losses" include:
 - A) Those from normal material handling operations (e.g., spills from the unloading or transfer of materials from bins or other containers, or leaks from pipes, valves, or other devices used to transfer materials);
 - B) Minor leaks from process equipment, storage tanks, or containers;
 - C) Leaks from well-maintained pump packings and seals;
 - D) Sample purgings; and
 - E) Relief device discharges.
- b) Any person may submit an application to the Agency demonstrating that an alternative treatment method can achieve a level of performance equivalent to that achievable by methods specified in subsections (a) above and (c) and (d) below for wastes or specififed in Section 728. Table F for hazardous debris. The applicant shall submit information demonstrating that the applicant's treatment method is in compliance with federal and state requirements, including this Partr: 35 Ill. Adm. Code 709, 724, 725, 726, and 729; and Sections 22.6 and 39(h) of the Environmental Protection Act [415 ILCS 5/22.6 and 39(h)]₇ and that it the treatment method is protective of human health orand the environment. On the basis of such information and any other available information, the Agency shall approve the use of the alternative treatment method if the Agency finds that the alternative treatment method provides a measure of performance

equivalent to that achieved by methods specified in subsections (a) above and (c) and (d) below and in Section 728.Table F, for hazardous debris. Any approval must be stated in writing and may contain such provisions and conditions as the Agency determines to be appropriate. The person to whom such approval is issued shall

c) As an alternative to the otherwise applicable treatment standards of <u>728.</u>Subpart D of this Part, lab packs are eligible for land disposal provided the following requirements are met:

comply with all limitations contained in such determination.

1) The lab packs comply with the applicable provisions of 35 Ill. Adm. Code 724.416 and 725.416;

BOARD NOTE: 35 Ill. Adm. Code 729.301 and 729.312 include additional restrictions on the use of lab packs.

- 2) All hazardous wastes contained in such lab packs are specified in Section 728.Appendix D or Section 728.Appendix EThe lab pack does not contain any of the wastes listed in Section 728.Appendix D;
- 3) The lab packs are incinerated in accordance with the requirements of 35 Ill. Adm. Code 724.Subpart O or 35 Ill. Adm. Code 725.Subpart O; and
- 4) Any incinerator residues from lab packs containing D004, D005, D006, D007, D008, D010, and D011 are treated in compliance with the applicable treatment standards specified for such wastes in <u>728.</u>Subpart D.
- d) Radioactive hazardous mixed wastes with treatment standards specified in Section 728.Table E are not subject to any treatment standards specified in Section 728.141, 728.143, or 728.Table D. Radioactive hazardous mixed wastes not subject to treatment standards in Section 728.Table E remain subject to all applicable treatment standards specified in Sections 728.141, 728.143, and 728.Table D.are subject to the treatment standards in Sections 728.140 and 728.Table T. Where treatment standards are specified for radioactive mixed wastes in Section 728.Table T, "Table of Treatment Standards", those treatment standards will govern. Where there is no specific treatment standard for radioactive mixed waste, the treatment standard for the hazardous waste (as designated by EPA waste code) applies. Hazardous debris containing radioactive waste is not subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Table F but is subject to the treatment standards specified in Section 728.Tabl

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 728.143 Treatment Standards eExpressed as Waste Concentrations

For the requirements previously found in this Section and for treatment standards in Section 728.Table A, "CCW-Constituent Concentrations in Wastes", refer to Section 728.140 and 728.Table T, "Treatment Standards for Hazardous Wastes".

a) Table B identifies the restricted wastes and the concentrations of their associated hazardous constituents which must not be exceeded by the waste or treatment residual (not an extract of such waste or treatment residual) for the allowable land disposal of such waste or residual. Compliance with these concentrations is required based upon grab samples, unless otherwise noted in Table Br

- b) When wastes with different treatment standards for a constituent of concern are combined for purposes of treatment, the treatment residue must meet the lowest treatment standard for the constituent of concern.
- c) Notwithstanding the prohibitions specified in subsection (a) and Table B, treatment and disposal facilities may demonstrate (and certify pursuant to Section 728.107(b)(5)) compliance with the treatment standards for organic constituents specified by a footnote in Table B, by satisfying the following conditions:
 - 1) The treatment standards for the organic constituents were established based on incineration in units operated in accordance with the technical requirements of 35 Ill. Adm. Code 724.Subpart 0 or 35 Ill. Adm. Code 725.Subpart 0, or based on combustion in fuel substitution units operating in accordance with applicable technical requirements;
 - 2) The treatment or disposal facility has used the methods referenced in subsection (c)(1) to treat the organic constituents; and
 - 3) The treatment or disposal facility has been unable to detect the organic constituents despite using its best good-faith efforts as defined by applicable standards. Until such standards are developed, the treatment or disposal facility may demonstrate such good-faith efforts by achieving detection limits for the regulated for the regulated organic constituents which are less than ten times the treatment standard specified in this Section.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 728.145 Treatment Standards for Hazardous Debris

- a) Treatment standards. Hazardous debris must be treated prior to land disposal as follows unless the Board has determined, under 35 Ill. Adm. Code 721.103(d)(2), that the debris is no longer contaminated with hazardous waste or the debris is treated to the waste-specific treatment standard provided in this Subpart for the waste contaminating the debris:
 - General. Hazardous debris must be treated for each "contaminant subject to treatment", defined by subsection (b) of this Sectionbelow, using the technology or technologies identified in Section 728.Table F.
 - 2) Characteristic debris. Hazardous debris that exhibits the characteristic of ignitability, corrosivity, or reactivity identified under 35 Ill. Adm. Code 721.121, 721.122, andor 721.123, respectively, must be deactivated by treatment using one of the technologies identified in Section 728.Table F.
 - 3) Mixtures of debris types. The treatment standards of Section 728.Table F must be achieved for each type of debris contained in a mixture of debris types. If an immobilization technology is used in a treatment train, it must be the last treatment technology used.

- 4) Mixtures of contaminant types. Debris that is contaminated with two or more contaminants subject to treatment identified under subsection (b) of this Sectionbelow must be treated for each contaminant using one or more treatment technologies identified in Section 728.Table F. If an immobilization technology is used in a treatment train, it must be the last treatment technology used.
- 5) Waste PCBs. Hazardous debris that is also a waste PCB under 40 CFR 761 is subject to the requirements of either 40 CFR 761 or the requirements of this Section, whichever are more stringent.
- b) Contaminants subject to treatment. Hazardous debris must be treated for each "contaminant subject to treatment". The contaminants subject to treatment must be determined as follows:
 - Toxicity characteristic debris. The contaminants subject to treatment for debris that exhibits the Toxicity Characteristic (TC) by 35 Ill. Adm. Code 721.124 are those EP constituents for which the debris exhibits the TC toxicity characteristic.
 - 2) Debris contaminated with listed waste. The contaminants subject to treatment for debris that is contaminated with a prohibited listed hazardous waste are those constituents or wastes for which BDAT treatment standards are established for the waste under Sections 728.1410 and 728.143Table T.
 - Cyanide reactive debris. Hazardous debris that is reactive because of cyanide must be treated for cyanide.
- c) Conditioned exclusion of treated debris. Hazardous debris that has been treated using one of the specified extraction or destruction technologies in Section 728.Table F and that does not exhibit a characteristic of hazardous waste identified under 35 Ill. Adm. Code 721.Subpart C after treatment is not a hazardous waste and need not be managed in a subtitle C facility. Hazardous debris contaminated with a listed waste that is treated by an immobilization technology specified in Section 728.Table F is a hazardous waste and must be managed in a <u>RCRA Seubtitle C</u> <u>treatment</u>, storage, or disposal facility.
- d) Treatment residuals
 - General requirements. Except as provided by subsections (d)(2) and (d)(4) below:
 - A) Residue from the treatment of hazardous debris must be separated from the treated debris using simple physical or mechanical means; and
 - B) Residue from the treatment of hazardous debris is subject to the waste-specific treatment standards provided by <u>728.Subpart D-of this Part</u> for the waste contaminating the debris.
 - 2) Nontoxic debris. Residue from the deactivation of ignitable, corrosive, or reactive characteristic hazardous debris (other than cyanide-reactive) that is not contaminated with a contaminant subject to treatment defined by subsection (b) above, must be deactivated prior to land

disposal and is not subject to the waste-specific treatment standards of <u>728.</u>Subpart D-of this Part.

- 3) Cyanide-reactive debris. Residue from the treatment of debris that is reactive because of cyanide must meet the standards for <u>U.S. EPA hazardous waste number</u> D003 under Section 728.143.
- 4) Ignitable nonwastewater residue. Ignitable nonwastewater residue containing equal to or greater than 10% total organic carbon is subject to the technology-based standards for <u>U.S. EPA hazardous waste number</u> D001: "Ignitable Liquids based on 35 Ill. Adm. Code 721.121(a)(1)", under Section 728.142.
- 5) Residue from spalling. Layers of debris removed by spalling are hazardous debris that remain subject to the treatment standards of this Section.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 728.146 Alternative Treatment Standards Based on HTMR

Section 728.Table C identifies alternative treatment standards for F006 and K062 nonwastewaters.For the treatment standards previously found in Section 728.Table G, as formerly referenced in this Section, refer to Sections 728.140 and 728.Table T, "Treatment Standards for Hazardous Wastes".

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 728.148 Universal Treatment Standards

Section 728.Table U, "Universal Treatment Standards (UTS)", identifies the hazardous constituents, along with the nonwastewater and wastewater treatment standard levels, that are used to regulate most prohibited hazardous wastes with numerical limits. For determining compliance with treatment standards for underlying hazardous constituents, as defined in Section 728.102(i), these treatment standards may not be exceeded. Compliance with these treatment standards is measured by an analysis of grab samples, unless otherwise noted in Section 728.Table U.

(Source: Added at 19 Ill. Reg. _____, effective _____)

Section 728. Appendix D Organometallic Lab PacksWastes Excluded from Lab Packs

Hazardous waste with the following U.S. EPA hazardous waste codes may not be placed in lab packs under the alternative lab pack treatment standards of Section 728.142(c): D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151.

Hazardous waste with the following hazardous waste code numbers may be placed in an "organometallic" or "Appendix D lab pack:"

P001, P002, P003, P004, P005, P006, P007, P008, P009, P013, P014, P015, P016, P017, P018, P020, P021, P022, P023, P024, P026, P027, P028, P029, P030, P031, P033, P034, P036, P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P056, P057, P058, P059, P060, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P077, P081, P082, P084, P085, P087, P088, P089, P092, P093, P094, P095, P096, P097, P098, P099, P101, P102, P103, P104, P105, P106, P108, P109, P110, P111, P112, P113, P114, P115, P116, P118, P119, P120, P121, P122, P123

<u>0001, 0002, 0003, 0004, 0005, 0006, 0007, 0008, 0009, 0010, 0011, 0012, 0014,</u> U015, U016, U017, U018, U019, U020, U021, U022, U023, U024, U025, U026, U027, <u>0028, 0029, 0030, 0031, 0032, 0033, 0034, 0035, 0036, 0037, 0038, 0039, 0041,</u> U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, u070, u071, u072, u073, u074, u075, u076, u077, u078, u079, u080, u081, u082, u083, u084, u085, u086, u087, u088, u089, u090, u091, u092, u093, u094, u095, u096, u097, u098, u099, u101, u102, u103, u105, u106, u107, u108, u109, u110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U123, U124, U125, U126, U127, U128, U129, U130, U131, U132, U133, U136, U137, U138, U140, U141, U142, U143, U144, U145, U146, U147, U148, U149, U150, U152, U153, U154, U155, U156, U157, U158, U159, U160, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U189, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U204, U205, U206, U207, U208, U209, U210, U211, U213, U214, U215, U216, U217, U218, U219, U220, U221, U222, U223, U225, U226, U227, U228, U234, U235, U236, U237, U238, U239, U240, U243, U244, U246, U247, U248, U249

F001, F002, F003, F004, F005, F006, F010, F020, F021, F022, F023, F024, F025 F026, F027, F028, F039

K001, K002, K008, K009, K010, K011, K013, K014, K015, K016, K017, K018, K019, K020, K021, K022, K023, K024, K025, K026, K027, K028, K029, K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041, K042, K043, K044, K045, K046, K047, K048, K049, K050, K051, K052, K060, K061, K069, K071, K073, K083, K084, K085, K086, K087, K093, K094, K095, K096, K097, K098, K099, K101, K102, K103, K104, K105, K113, K114, K115, K116

D001, D002, D003, D004, D005, D006, D007, D008, D010, D011, D012, D013, D014, D015, D016, D017

BOARD NOTE: 35 Ill. Adm. Code 729.301 and 729.312 include additional limitations on the use of lab packs.

(Source: Amended at 19 Ill. Req. , effective

Section 728. Appendix E Organic Lab Packs (Repealed)

Hazardous wastes with the following Hazardous Waste Code No. may be placed in an "organic" or "Appendix E" lab pack:

P001, P002, P003, P004, P005, P007, P008, P009, P014, P016, P017, P018, P020, P021, P022, P023, P024, P026, P027, P028, P030, P031, P033, P034, P037, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P057, P058, P059, P060, P062, P063, P064, P066, P067, P068, P069, P070, P071, P072, P075, P077, P081, P082, P084, P085, P088, P089, P093, P094, P095, P097, P098, P101, P102, P105, P106, P108, P109, P111, P112, P116, P118, P123

U001, U002, U003, U004, U005, U006, U007, U008, U009, U010, U011, U012, U014, U015, U016, U017, U018, U019, U020, U021, U022, U023, U024, U025, U026, U027, U028, U029, U030, U031, U033, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U083, U084, U085, U086, U087, U088, U089, U090, U091, U092, U093, U094, U095, U096, U097, U098, U099, U101, U102, U103, U105, U106, U107, U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U123, U124, U125, U126, U127, U128, U129, U130, U131, U132, U133, U135, U137, U138, U140, U141, U142, U143, U147, U148, U149, U150, U152, U153, U154, U155, U156, U157, U158, U159, U160, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185,

data (where available). Notice and certi- fication statement that waste meets applicable treat- ment standards or applicable prohibi- tion levels. Notice must include:	Lasoqaid bnaJ facilics f	јаэтдійг dэв3	 B. Waste can be disposed of without further treatment (meets applicable dards or does not exceed prohibition levels upon gen- eration) (see (a)(2)).
•Waste analysis			
. Manifest number.			
•Treatability oroup.			
concern.			.((<u>1</u>)(<u>a</u>)707.827
•Constituents of			prohibition levels (see Section
•U.S. EPA hazardous			<u>etandarda or</u> exceeda applicable
<u>include:</u>	<u>storaqe</u> facility.		<u>тееt арріісаріе</u> тгеаттел <u>т</u>
Notice must	Treatment or	Each shipment	A. Waste does not
			I. Generator
<u>Recordkeeping.</u> <u>Notification, and</u> <u>Certification</u> Requirement <u>a</u>	<u>10 τηθίστοβ</u> ΠοίτεοίζίτοΝ	Yoneupera	Entity and Scenario
		Requirements	
<u>Certification</u>	q, Notification, and	x J Recordkeepin	ibnaggA.827 noitca2
(effective	at 19 Ill. Reg.	(Source: Repealed
fsnoijibbe s	01-312-515.927-bna		limitatione on the
	£TOG		0001\ D015\ D013\ D
			X 4660X 4860X 460X
	K090' K013' K082' K03 K034' K032' K036' K03		
0' <u>4053</u>' 4054' 4052'	K011, K018, K019, K02	'910% '\$10% '£10	x000' KOTO' KOTT' K
3' E025' E036' E053'	E050' E053' E055' E05	004	E038 E037 E005 E003 E
			1543, 1244, 1246, 1
	0534' 0532' 0536' 053 0510' 0511' 0513' 051		
	GEN 'PGEN 'EGEN 'CGEN		

•Constituents of concern.

•Treatability group.

•Manifest number.

•Waste analysis data (where available).

Certification statement required under Section 728.107(a)(2)(B) that waste complies with treatment standards and prohibitions.

Notice must include:

•Statement that waste is not prohibited from land disposal.

•U.S. EPA hazardous waste number.

•Constituents of concern.

•Treatability group.

•Manifest number.

•Waste analysis data (where available).

•Date the waste is subject to the prohibitions.

Generator must develop, keep onsite, and follow a written waste analysis plan describing procedures used to comply with the treatment standards.

If waste is shipped <u>off-site, generator</u> also must comply

C. Waste is subject to exemption from a prohibition on the type of land disposal utilized for the waste, such as a case-by-case extension under Section 728.105, an exemption under Section 728.106, or a nationwide capacity variance (see Section 728.107(a)(3)).

D. Waste is being accumulated in tanks or containers requlated under 35 Ill. Adm. Code 722.134 and is being treated in such tanks or containers to meet applicable treatment standards (see Section 728.107 (a)(4)).

Minimum of 30 days Agency. Delivprior to treatment activity.

Each shipment

ery must be verified.

Receiving

facility

	25	5	
			with notification requirement of Sec- tion 728.107(a)(2).
E. Generator is managing a lab pack containing certain wastes and wishes to use an	Each shipment	<u>Treatment</u> <u>facility</u>	Notice in accor- dance with Section 728.107(a)(1), (a)(5), and (a)(6), where applicable.
<u>alternative treat-</u> ment standard (see <u>Section 728.107</u> (a)(8)).			<u>Certification in</u> <u>accordance with</u> <u>Section 728.107</u> (a)(8).
F. Small quantity generators with tolling agreements (pursuant to 35 Ill. Adm. Code 722.120(e)) (see Section 728.107	<u>Initial shipment</u>	<u>Treatment</u> <u>facility</u>	<u>Must comply with</u> <u>applicable notifi-</u> <u>cation and</u> <u>certification</u> <u>requirements in</u> <u>Section 728.107(a).</u>
<u>(a)(9)).</u>			Generator also must retain copy of the notification and certification to- gether with tolling agreement on-site for at least 3 years after termi- nation or expira- tion of agreement.
G. Generator has determined waste is restricted based solely on his knowledge of the waste (see Section 728.107 (a)(5)).	<u>N/A</u>	<u>Generator's</u> <u>file</u>	All supporting data must be retained on-site in gener- ator's files.
H. Generator has determined waste is restricted based on testing waste or an ex- tract (see Section 728.107(a)(5)).	<u>N/A</u>	<u>Generator's</u> <u>file</u>	<u>All waste analysis</u> <u>data must be re-</u> <u>tained on-site in</u> generator's files.
I. Generator has determined that waste is excluded from the definition of hazardous or solid waste or exempt from RCRA Subtitle C (hazardous waste) regulation (see Section 728.107(a)(6)).	<u>One-time</u>	<u>Generator's</u> <u>file</u>	Notice of generation and sub- sequent exclusion from the definition of hazardous or solid waste, or exemption from RCRA Subtitle C (hazardous waste) regulation, and information regarding the

<u>J. Generator (or</u>	One
treater) claims	
that hazardous	
<u>debris is excluded</u>	
from the	
definition of	
hazardous waste	
under 35 Ill. Adm.	
Code 721.103(f)(1)	
(see Section	
728.107(d)).	

		. 1	

Agency.
Notification
must be updated
as necessary
under Section
728.107(d)(2).

disposition of the waste.

Notice must include:

•Name and address of RCRA Subtitle D (municipal solid waste landfill) facility receiving treated debris.

•U.S. EPA hazardous waste number and description of debris as initially generated.

•Technology used to treat the debris (Table 1 of Section 728.145).

<u>Certification and</u> <u>recordkeeping in</u> <u>accordance with</u> <u>Section 728.107</u> (d)(3).

Notice must include:

•Name and address of RCRA Subtitle D (municipal solid waste landfill) facility receiving the waste.

•U.S. EPA hazardous waste number and description of waste as initially generated.
•Treatability group.
•Underlying hazardous constituents.
Certification in accordance with Section 728.109 (d)(2).

<u>K. Generator (or On</u> <u>treater) claims</u> <u>that</u> <u>characteristic</u> <u>wastes are no</u> <u>longer hazardous</u> <u>(see Section</u> 728.109 (d)).

<u>One-time</u>

Generator's (or treater's) files and Agency. Notification must be updated as necessary under Section 728.109(d).

L. Other recordkeeping requirements (see Section 728.107 (a)(7)).

N/A

Generator's file

Land disposal

facility

257

Generator must retain a copy of all notices, certifications, demonstrations, <u>waste analysis</u> data, and other documentation produced pursuant to Section 728.107 on-site for at least 5 years from the date that the waste was last sent to on-site or offsite treatment, storage, or disposal. This period is automatically extended during enforcement actions or as requested by the Agency.

II. Treatment Facility

Each shipment A. Waste shipped from treatment facility to land disposal facility (see Sections 728.107(b)(4) and (b)(5)).

Notice must include:

> •U.S. EPA hazardous waste number.

•Constituents of concern.

•Treatability group.

•Manifest number.

•Waste analysis <u>data (where</u> available).

Application certification, in accordance with Section 728.107 (b) (5) (A), (b)(5)(B) or (b)(5)(C), stating that the waste or treatment residue has been treated in compliance with applicable treatment standards and prohibitions.

B. Waste treatment Each shipment residue from a

Receiving facility

Treatment, storage, <u>or disposal</u>

treatment or storage facility will be further managed at a different treatment or storage facility (see Section 728.107(b)(6)).			facility must comply with all notice and certification requirements applicable to generators.
C. Where wastes are recyclable materials used in a manner constituting disposal subject to Section 726.120 (b) (see Section 728.107(b)(7)).	<u>Each shipment</u>	<u>Agency.</u>	No notification to receiving facility required pursuant to Section 728.107(b)(4). Certification as described in Sec- tion 728.107(b)(5) and notice with information listed in Section 728.107 (b)(4), except manifest number. Recycling facility must keep records of the name and location of each entity receiving hazardous

III. Land Disposal Facility.

A. Wastes accepted N/A by land disposal facility (see Section 728.107 (C)).

N/A

Maintain copies of notice and <u>certifications</u> specified in Section 728.107(a) and (b).

waste-derived products.

Certification Statements

- A. I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 35 Ill. Adm. Code 728.Subpart D and all applicable prohibitions set forth in 35 Ill. Adm. Code 728.132 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (Section 728.107(a)(2)(B))
- B. I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack does not contain any wastes identified at Section 728. Appendix D. I am aware that there are significant penalties for submitting a false certification, including possibility of fine or imprisonment. (Section 728.107(a)(8))
- C. I certify under penalty of law that I have personally examined and am

familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 35 Ill. Adm. Code 728.Subpart D, and all applicable prohibitions set forth in 35 Ill. Adm. Code 728.132 or RCRA section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (Section 728.107(b)(5)(A))

- D. I certify under penalty of law that the waste has been treated in accordance with the requirements of 35 Ill. Adm. Code 728.142. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (Section 728.107 (b)(5)(B))
- E. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 35 Ill. Adm. Code 724.Subpart O or 35 Ill. Adm. Code 725.Subpart O or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (Section 728.107(b)(5)(C))
- F. I certify under penalty of law that the waste has been treated in accordance with the requirements of 35 Ill. Adm. Code 728.140 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (Section 728.107(b)(5)(D))
- <u>G.</u> I certify under penalty of law that the debris have been treated in accordance with the requirements of 35 Ill. Adm. Code 728.145. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment. (Section 728.107 (d)(3)(C))

(Source: Added at 19 Ill. Reg. , effective)

Section 728. Table A Constituent Concentrations in Waste Extract (CCWE)

For the requirements previously found in this Section and Section 728.141, refer to Section 728.140 and 728.Table T, "Treatment Standards for Hazardous Wastes".

D, F and K Listed Wastes

			CAS No. for		Concentra-
Waste	See	Regulated Hazardous	Regulated Hazardous	Concentra- tion (mg/L)	tion (mg/L) Nonwastewat-
Code	Also	Constituent	Constituent	Wastewaters	ers

0004	Table B	Arsenic	7440-38-2	NA	5.0 #A
0005	Table B	Barium	7440-39-3	NA	100.
0006	Table B	Cadmium	7440-43-9	NA	1.0
0007	Table B	Chromium (Total)	7440-47-32	NA	5.0
8004	Table B	Lead	7439-92-1	NA	5.0 #N
0009	I.ow Mer	oury Subcategory-less than	260 mg/kg More	wrv)	
	Tables B & D	Mercury	7439-97-6	NA	0.20
D010	Table B	Selenium	7782-49-2	NA	5.7
D011	Table B	Silver	7440-22-4	NA	5.0
F001-	F005 spei	t solvents			
		Carbon digulfide	75-15-0	NA	4.8
		Cyclohexanone	108 - 94 - 1	NA	0.75
		<u>Methanol</u>	67-56-1	NA	0.75
			5440 43 0		0.044
F006	Table B	Cadmium Chromium (Total)	7440-43-9 7440-47-32	NA NA	0.066 5.2
		Lead	7439-92-1	NA NA	5.2 0.51
		Nickel	7440-02-0	NA	0.32
		Silver	7440-22-4	NA	0.072
F007	Table B	Gadmium	7440-43-9	NA	0.066
		Chromium (Total)	7440-47-32	NA	5.2
		Lead	7439-92-1	NA	0.51
		Nickel	7440-02-0	NA	0.32
		Silver	7440-22-4	NA	0.072
F008	Table B	Gadmium	7440-43-9	NA	0.066
		Chromium (Total)	7440-47-32	NA	5.2
		Lead	7439-92-1	NA	0.51
		Nickel	7440-02-0	NA	0.32
		Silver	7440-22-4	NA	0.072
F009	mable B	Gadmium	7440-43-9	NA	0.066
FUU	Tubic b	Chromium (Total)	7440-47-32	NA	5.2
		Lead	7439-92-1	NA	0.51
		Nickel	7440-02-0	NA	0.32
		Silver	7440-22-4	NA	0.072
	mahle P		7440 42 0		0.000
TULL	Table B	Cadmium (Total)	7440-43-9 7440-47-32	NA ND	0.066 5.2
		Lead	7439-92-1	NA NA	$\frac{5.2}{0.51}$
		Nickel	7440-02-0	NA NA	0.32
		Silver	7440-22-4	NA	0.072
			, , , , , , , , , , , , , , , , , , , ,		01012
F012	Table B		7440-43-9	NA	0.066
		Chromium (Total)	7440-47-32	NA	5.2
		Lead	7439-92-1	NA	0.51
		Nickel	7440-02-0	NA	0.32
		Silver	7440-22-4	NA	0.072
F019	Table B	Chromium (Total)	7440-47-32	NA	5.2

F020-F023 and F026-F028 dioxin-containing wastes *

		HxCDD-All Hexachlorodi-		<1. ppb	<1. ppb
		benzo-p-dioxins			
		HxCDF-All Hexachlorodi- bengofurang		<1. ppb	<1. ppb
		Pecbb-All Pentachloro-		<1. ppb	<1. ppb
		dibenzo-p-dioxins		EF FF	
		PecDF-All Pentachlorodi-		<1. ppb	<1. ppb
		benzofurans		••	~ *
		TCDD-All Tetrachloro-		<1. ppb	<1. ppb
		dibenzo-p-dioxins			
		TCDF-All Tetrachlore-		<1. ppb	<1. ppb
		dibenzofurane			
		2,4,5-Trichlorophenol	95-95-4	<0.05 ppm	<0.05 ppm
		2,4,6-Trichlorophenol	88-06-2	<0.05 ppm	<0.05 ppm
		2,3,4,6-Tetrachlorophenol	58-90-2	<0.05 ppm	<0.05 ppm
		Pentachlorophenol	87-86-5	<0.01 ppm	<0.01 ppm
F024	Tabla B	Chromium (Total)	7440-47-32	NA	0.073
1021		Lead	7439-92-1	NA Reser	
		Nickel	7440-02-0	NA REBEL	0.088
		NICACI	1410 02 0	1411	01000
F037	Table B	Chromium (Total)	7440-47-32	NA	1.7
		Nickel	7440-02-0	NA	0.20
F038	Table B	Chromium (Total)	7440-47-32	NA	1.7
		Nickel	7440-02-0	NA	0.20
F039	(and D001	1 and D002 wastes prohibited		-728.137	
	Tables	Antimony	7440-36-0	NA	0.23
	B & D	- · ·			
		Arsenic	7440-38-2	NA	5.0
		Barium	7440-39-3	NA	52 .
		Gadmium	7440-43-9	NA	0.066
		Chromium (Total)	7440-47-32	NA	5.2
		Lead	7439-92-1	NA	0.51
		Mercury	7439-97-6	NA	0.025
		Nickel	7440-02-0	NA	0.32
		Selenium	7782-49-2	NA	5.7
		Silver	7440-22-4	NA	0.072
к001		Tood	7420 02 1	212	0 51
ROOT	Table B	Bead	7439-92-1	NA	0.51
к002	Table R	Chromium (Total)	7440-47-32	NA	0.094
ROOL	TUDIC D	Lead	7439-92-1	NA	0.37
		Deud	7405 52 2	TALL	0.07
KUU3	Table B	Chromium (Total)	7440-47-32	NA	0.094
	IUDIC D	Lead	7439-92-1	NA	0.074 0.37
			,,		0.07
K004	Table B	Chromium (Total)	7440-47-32	NA	0.094
		Lead	7439-92-1	NA	0.37
K005	Table B	Chromium (Total)	7440-47-32	NA	0.094
		Lead	7439-92-1	NA	0.37
K006 -	(anhydrou				
	Table B	Chromium (Total)	7440-47-32	NA	0.094
		Lead	7439-92-1	NA	0.37
K006	(hydrated				
	Table B	Chromium (Total)	7440-47-32	NA	5.2
K007	Table B	Chromium (Total)	7440-47-32	NA	0.094

		Lead	7439-92-1	NA	0.37
K008	Table B	Chromium (Total) Lead	7440-47-32 7439-92-1	NA NA	0.094 0.37
K015	Table B	Chromium (Total) Nickel	7440-47-32 7440-02-0	NA NA	1.7 0.2
K021	Table B	Antimony	7440-36-0	NA	0.23 #N
K022	Table B	Chromium (Total) Nickel	7440-47-32 7440-02-0	NA NA	5.2 0.32
K028	Table B	Chromium (Total) Lead Niokel	7440-47-32 7439-92-1 7440-02-0	NA NA NA	0.073 0.021 0.088
K031	Table B	Arsenic	7440-38-2	NA	5.6 #A
K046	Table B	Lead	7439-92-1	NA	0.18
K048	Table B	Chromium (Total) Nickel	7440-47-32 7440-02-0	NA NA	1.7 0.20
K049	Table-B	Chromium (Total) Nickel	7440-47-32 7440-02-0	NA NA	1.7 0.20
K050	Table B	Chromium (Total) Nickel	7440-47-32 7440-02-0	NA NA	1.7 0.20
K051	Table B	Chromium (Total) Nickel	7440-47-32 7440-02-0	NA NA	1.7 0.20
K052	Table B	Chromium (Total) Nickel	7440-47-32 7440-02-0	NA NA	1.7 0.20
x061	Table B	Antimony Arsenic Barium Boryllium Cadmium Chromium (Total) Lead Mercury Nickel Selenium Silver Thallium Zinc	$\begin{array}{r} 7440 - 36 - 0 \\ 7440 - 38 - 2 \\ 7440 - 39 - 3 \\ 7440 - 41 - 7 \\ 7440 - 43 - 9 \\ 7440 - 47 - 32 \\ 7439 - 92 - 1 \\ 7439 - 92 - 1 \\ 7439 - 92 - 1 \\ 7439 - 92 - 1 \\ 7439 - 92 - 1 \\ 7440 - 22 - 4 \\ 7440 - 22 - 4 \\ 7440 - 66 - 6 \end{array}$	NA NA NA NA NA NA NA NA NA NA NA	2.1 0.055 7.6 0.014 0.19 0.33 0.37 0.009 5. 0.16 0.16 0.3 0.078 5.3
K062	Table B	Chromium (Total) Lead	7440-47-32 7439-92-1	NA NA	0.094 0.37
ко69 -	(Calcium	Sulfate Subcategory}			
	Tables B & D	Gadmium	7440-43-9	NA	0.14
		Lead	7439-92-1	NA	0.24
K071	Table B	Mercury	7439-97-6	NA	0.025
K083	Table B	Nickel	7440-02-0	NA	0.088

KO86 Table B Chromium (Total) 7440-47-32 NA 0.094 Lead 7439-92-1 NA 0.37 7439-92-1 KO87 Table B Lead NA 0.51 7440-43-9 NA 0.066 K100 Table B Gadmium 7440-47-32 7439-92-1 Chromium (Total) NA 5.2 Lead NA 0.51 K101 Table B Arsenic 7440-38-2 NA 5.6 #A K102 Table B Arsenic 7440-38-2 NA 5.6 #A K106 (Low Mercury Subcategory-less than 260 mg/kg Mercury-residues from RMERC) 7439-97-6 NA 0.020 Tables Mercury B & D K106 (Low Mercury Subcategory-less than 260 mg/kg Mercury--that are not residues from RMERC) Tables Mercury 7439-97-6 NA 0.025 B & D

P and U Listed Wastes

7440-02-0

Waste Code		Commercial Chemical Name	Regulated Hazardous Constituent	CAS No. for Regulated Hazardous Constituent	Concentra- tion (mg/L) Wastewaters	Concentra- tion (mg/L) Nonwaste- waters		
P010	Table B	Arsenic acid	Arsenio	7440-38-2	NA	5.6 #A		
P011	Table B	Arsenic pentoxide	Arsenic	7440-38-2	NA	5.6 ∦ ħ		
P012	Table B	Arsenic tri- oxide	Arsenic	7440–38–2	NA	5.6 #A		
P013	Table B	Barium cyanide	Barium	7440-39-3	NA	52 .		
₽036	Table B	Dichloro- phenylarcine	Arsenic	7440-38-2	NA	5.6 #N		
₽038	Table B	Diethyl- arcine	Arsenic	7440-38-2	NA	5.6 #N		
P065 (Low Mercury Eubcategory-less than 260 mg/kg Mercury-residues from RMERC)								
MILINO	Tables	Mercury fulminate	Mercury	7439-97-6	NA	0.20		
P065	P065 (Low Mercury Subcategory-less than 260 mg/kg Mercury-incinerator residues (and are not residues from RMERC)}							
10010						0.005		

Tables Mercury Mercury 7439-97-6 NA 0.025 B & D fulminate

K084 Table B Arsenic

K115 Table B Nickel

7440-38-2

5.6 #A

0.32

NA

NA

₽073	Table B	Nickel carbonyl	Nickel	7440-02-0	NA	0.32
₽074	Table B	Nickel cyanide	Nickel	7440-02-0	NA	0.32
	•	oury Subcatego	ory less th :	n 260 mg/kg Mero u	ry residues	from
RMERC	† Tables B & D	Phenyl mer- cury acetate		7439-97-6	NA	0.20
			ory-less than dues from RMER(-260 mg/kg Mercury	incincrat	ə r
reard	Tables		Mercury	7439-97-6	NA	0.025
₽099	Table B	Potassium silver oyanide	Silver	7440-22-4	NA	0.072
P103	Table B	Selenourea	Selenium	7782-49-2	NA	5.7
P104	Table-B	Silver cyanide	Silver	7440-22-4	NA	0.072
P110	Table B	Tetraethyl lead	Lead	7439-92-1	NA	0.51
P114	Table B	Thallium selenite	Selenium	7782-49-2	NA	5.7
0032	Table B	Calcium chromate	Chromium (Total)	7440-47-32	NA	0.094
U051	Table B	Greesete	Lead	7439-92-1	NA	0.51
U136	Table B	Cacodylic acid	Arsenic	7440-38-2	NA	5.6
U144	Table B	Lead-acetate	Lead	7439-92-1	NA	0.51
U145	Table B	Lead phosphate	Lead	7439-92-1	NA	0.51
U146	Table B	Lead sub- acetate	Lead	7439-92-1	NA	0.51
		oury Subcatego	>ryless than	-260 mg/kg Mercury	residues-	from
RMERC	7 Tables B & D	Mercury	Mercury	7439-97-6	NA	0.20
			y-less than	260 mg/kg Mercury	that-are-	not
1691 0	ues from Tables B-& D		Mercury	7439-97-6	NA	0.025
U204	Table B	Selenium dioxide	Selenium	7782-49-2	NA	5.7
U205	Table B	Selenium sulfide	Selenium	7782-49-2	NA	5.7

*

#A-These treatment standards have been based on EP Leachate analysis but this does not preclude the use of TCLP analysis.

*B--These waste codes are not subcategorized into wastewaters and nonwastewaters.

NA--Not Applicable.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 728. Table B Constituent Concentrations in Wastes (CCW)

For the requirements previously found in this Section and for treatment standards in Section 728.143, "Constituent Concentrations in Wastes (CCW)", refer to Section 728.140 and 728.Table T, "Treatment Standards for Hazardous Wastes".

D, F and K Listed Wastes

Waste Code	Sec Also	Regulated Hazardous Constituent	Hazardous	Concentra- tion (mg/L) Wastewaters	
D003- NA		e cyanides subcategory-bas 57-12-5		. Adm. Code 7 <mark>⊭ 590. C</mark>	21.123(a)(5))
	(Total)	Cyanides (Amenable)	57-12-5	0.86	30.
0004	Table A	Arsenic	7440-38-2	5.0	NA
0005	Table A	Barium	7440-39-3	100.	NA
0006	Table A	Gadmium	7440-43-9	1.0	NA
0007	Table A	Chromium (Total)	7440-47-32	5.0	NA
0008	Table A	Lead	7439-92-1	5.0	NA
9009	Table A	Mercury	7439-97-6	0.20	NA
D010	Table A	Selenium	7782-49-2	1.0	NA
D011	Table A	Silver	7440-22-4	5.0	NA
D012	Table D	Endrin	720-20-8	NA	0.13 A
D013	Table D	Lindane	58-89-9	NA	0.066 A
D014	Table D	Methoxychlor	72-43-5	NA	0.18 A
D015	Table D	Toxaphene	8001-35-1	NA	1.3 A
D016	Table D	2,4-D	94-75-7	NA	10.0 A
D017	Table D	2,4,5-TP Silver	93-76-5	NA	7.9 A
F001-		ht solvents 67-64-1 Benzene n-Butyl alcohol	0.28 71-43-2 71-36-3	160. 0.070 5.6	3.7 A 2.6

		Carbon tetrachloride	56-23-5	0.057	5.6
		Chlorobenzene	108-90-7	0.057	5.7
		Gregol (m- and p-isomers)		0.77	3.2
		e-cresel		0.11	5.6
		o-Dichlorobenzene	95-50-1	0.088	6.2
		Ethyl acetate	141-7-6	0.34	33.
		Ethyl benzene	100 - 41 - 4	0.057	6.0
		Ethyl ether	60-29-7	0.12	160.
		Isobutyl alcohol	78-83-1	5.6	170.
		Methylene chloride	75-9-2	0.089	33.
		Methyl-ethyl-ketone	78-93-3 108-10-1	0.28 0.14	36. 33.
		Methyl-isobutyl-ketone Nitrobenzene	108-10-1 98-95-3	$\frac{0.14}{0.068}$	
		Pyridine	$\frac{38-35-5}{110-86-1}$	0.014	$\frac{1}{16}$
		Tyrrache Tetrachloroethylene	$\frac{110 \ 00 \ 1}{127 - 18 - 4}$	0.056	5-6
		Toluene	$\frac{108-88-3}{108-88-3}$	0.08	28.
		1,1,1-Trichloroethane	$\frac{100}{71-55-6}$	0.054	5.6
		1,1,2-Trichloroethane	79-00-5	0.030	7.6 A
		Trichloroethylene	79-01-6	0.054	5.6
		1,1,2-Trichloro-1,2,2-	76-13-1	0.057	28-
		trifluoromethane	10 10 1	01007	201
		Trichloromono-fluorome-	75-69-4	0.02	33.
		thane	70 02 1	0102	
		Xylenes (total)		0.32	28.
					201
F006	Table A	Cyanides (Total)	57-12-5	1.2	590 .
		Cyanides (Amenable)	57-12-5	0.86	30-
		Gadmium	7440-43-9	1.6	NA
		Chromium	7440-47-32	0.32	NA
		Lead	7439-92-1	0.040	NA
		Nickel	7440-02-0	0.44	NA
F007	Table A	Cyanides (Total)	57-12-5	1.9	590 .
		Cyanides (Amenable)	57-12-5	0.1	30.
		Chromium (Total)	7440-47-32	0.32	NA
		Lead	7439-92-1	0.04	NA
		Nickel	7440-02-0	0.44	NA
F008		Cuppides (metal)	57-12-5	1.9	590 -
1000	tabic n	Cyanides (Total) Cyanides (Amenable)	57-12-5	$\frac{1}{0.13}$	30.
		Chromium	7440-47-32	0.32	NA
		Lead	$\frac{7440-47-52}{7439-92-1}$	0.04	NA NA
		Nickel	7440-02-0	0.44	NA NA
		MICHCI	7440 02 0	0177	1411
F009	Table A	Cyanides (Total)	57-12-5	1.9	590 .
1005	10010	Cyanides (Amenable)	57-12-5	0.1	30.
		Chromium	7440-47-32	0.32	NA
		Lead	7439-92-1	0.04	NA
		Nickel	7440-02-0	0.44	NA
F010	NA	Cyanides (Total)	57-12-5	1.9	1.5
		Cyanides (Amenable)	57-12-5	0.1	NA
F011	Table A	Cyanides (Total)	57-12-5	1.9	110.
		Cyanides (Amenable)	57-12-5	0.1	9.1
		Chromium (Total)	7440-47-32	0.32	NA
		Lead	7439-92-1	0.04	NA
		Nickel	7440-02-0	0.44	NA
		- - - - - - - - - -			
F012	Table A	Cyanides (Total)	57-12-5	1.9	110.
		Cyanides (Amenable)	57-12-5	0.1	9.1
		Chromium (Total)	7440-47-32	0.32	NA

		Lead	7439-92-1	0.04	NA
		Nickel	7440-02-0	0.44	NA
F019	Table A	Cyanides (Total)	57-12-5	1.2 —	590. C
		Gyanides (Amenable)	57-12-5	0.86	30. C
		Chromium (Total)	7440-47-32	0.32	NA
F024	(Noter-	F024 organic standards must	-be-treated-via	incineratio	n (INCIN))
Table	2-	126-99-8	0.28 h	0.28 A	
s A &	Chloro-				
₽	1,3-				
	buta-				
	diene				
		3-Chloropropene	$\frac{107-05-1}{25}$	0.28 A	0.28 A
		1,1-Dichloroethane	75-34-3	0.014 A	0.014 A
		1,2-Dichloroethane	$\frac{107-06-2}{100}$	0.014 A	0.014 A
		1,2-Dichloropropane	78-87-5	0.014 A	0.014 A
		cis-1,3-Dichloropropene trans-1,3-Dichloropropene	$\frac{10061-01-5}{10061-02-6}$	0.014 A 0.014 A	0.014 A 0.014 A
		Bis(2-ethylhexyl)phthalate		0.036 A	1.8 A
		Hexachloroethane	$\frac{117-01}{67-72-1}$	0.036 A	1.8 A
		Chromium (Total)	7440-47-32	0.35	NA
		Nickel	7440-02-0	0.47	NA
		HICKEI	7440 02 0	U III	1111
FOR	(Light or	lds subcategory)			
NA	Chloro-		0.046 B	6.2 A	
1111	form		01010 -		
		1,2-Dichloroethane	107-06-2	0.21 B	6.2 A
		1,1-Dichloroethylene	75-35-4	0.025 B	6.2 A
		Methylene chloride	75-9-2	0.089 B	31. A
		Garbon tetrachloride	56-23-5	0.057 B	6.2 A
		1,1,2-Trichloroethane	79-00-5	0.054 B	6.2 A
		Trichloroethylene	79-01-6	0.054 B	5.6 A
		Vinyl-chloride	75-01-4	0.27 B	33. A
F025	(Spent f	lters or aids and desiccan	to subcategory)	-	
NA	Chloro-	67-66-3	0.046 B	6.2 A	
	form				
		Methylene shloride	75-9-2	0.089 B	31. A
		Carbon-tetrachloride	56-23-5	0.057 B	6.2 A
		1,1,2-Trichloroethane	79-00-5	0.054 B	6.2 A
		Trichloroethylene	79-01-6	0.054 B	5.6 A
		Vinyl shloride	75-01-4	0.27 B	33. A
		Hexachlorobensene	118-74-1	0.055 B	37. A
		Hexachlorobutadiene	87-68-3	0.055 B	28. A
		Hexachloroethane	67-72-1	0.055 B	30. A
0027	mable A	Aconsphthene	208-96-8	0.059 B	NA
F037	14010 n	Acenaphthene Anthracene	$\frac{208-96-8}{120-12-7}$	0.059 B	28. A
		Benzene	71-43-2	0.14 B	$\frac{14. A}{14. A}$
		Benzo(a)anthracene	50-32-8	0.059 B	20. A
		Benzo(a)pyrene	$\frac{117-81-7}{117-81-7}$	0.061 B	12. A
		Bis(2-ethylhexyl)	75-15-0	0.28 B	7.3 A
		phthalate	/0 20 0	0.20 2	/•••
		Ghrysene	218-01-9	0.059 B	15. A
		Di-n-butyl-phthalate	$\frac{105-67-9}{105-67-9}$	0.057 B	3.6 A
		Ethylbenzene	$\frac{100-41-4}{100-41-4}$	0.057 B	14. A
		Fluorene	86-73-7	0.059 B	NA
		Naphthalene	91-20-3	0.059 B	42. A
		Phenanthrene	85-01-8	0.059 B	34. A
		Phenol	108-95-2	0.039 B	3.6 A
		Pyrene	129-00-0	0.067 B	36. A
		-			

		Toluene	108-88-3	0.08 B	14. A
		Xylene(s)		0.32 В	22. A
		Cyanides (Total)	57-12-5	0.028 A	1.8 A
		Chromium (Total)	7440-47-32	0.2	NA
		Lead	7439-92-1	0.037	NA
		Dena	1433 32 1	01037	MIT
F038	Table A	Benzene	71-43-2	0.14 B	14. A
1000	TUDIC		50-32-8		
		Benzo(a) pyrene		0.061 B	12. A
		Bis(2-ethylhexyl)	117-81-7	0.28 B	7.3 A
		phthalate			
		Chrysene	218-01-9	0.059 В	15. A
		Di-n-butyl phthalate	84-74-2	0.057 В	3.6 A
		Ethylbenzene	100-41-4	0.057 В	14. A
		Fluorene	86-73-7	0.059 B	NA
		Naphthalene	91-20-3	0.059 B	42 A
		Phenanthrene	85-01-8	0.059 B	34. A
		Phenol	$\frac{108-95-2}{108}$	0.039 B	3-6-A
		_			
		Pyrene Meluses	129-00-0	0.067 В	36. A
		Toluene	108-88-3	0.080 B	14. A
		Xylene(s)		0.32 В	22. A
		Cyanides (Total)	57-12-5	0.028 A	1.8 A
		Chromium (Total)	7440-47-32	0.2	NA
		Lead	7439-92-1	0.037	NA
F039	(and D003	L and D002 wastes prohibite	d under Section	728.137)	
	Acetone			60. A	
0 A 6					
ъ	•				
		Acenaphthalene	208-96-8	0.059 в	3.4 A
		•			
		Acenaphthene	83-32-9	0.059 B	4.0 A
		Acetonitrile	75-05-8	0.17 B	NA
		Acetophenone	96-86-2	0.010 B	9.7 A
		2-Acetylaminofluorene	53-96-3	0.059 В	140. A
		Acrolien	107-02-8	0.29 В	NA
		Acrylonitrile	107-13-1	0.24 B	84. A
		Aldrin	309-00-2	0.021 В	0.068 A
		4-Aminobiphenyl	92-67-1	0.13 B	NA
		Aniline	62-53-3	0.81 B	14. A
		Anthragene	$\frac{120 - 12 - 7}{120 - 12 - 7}$	0.059 B	4.0 A
		Aramite	140-57-8	0.36 B	NA
		Aroclor 1016	$\frac{110-31-0}{12674-11-2}$	0.013 B	0.92 A
				0.014 B	
		Aroclor 1221	$\frac{11104-28-2}{11104}$		0.92 A
		Aroclor 1232	11141-16-5	0.013 B	0.92 A
		Aroclor 1242	53469-21-9	0.017 B	0.92 A
		Aroclor 1248	12672-29-6	0.013 B	0.92 A
		Aroclor 1254	11097 - 69 - 1	0.014 B	1.8 A
		Aroclor 1260	11096-82-5	0.014 B	1.8 A
		alpha-BHG	319-84-6	0.00014 В	0.066 A
		beta-BHC	319-85-7	0.00014 B	0.066 A
		delta-BHC	319-86-8	0.023 в	0.066 A
		gamma-BHC	58-89-9	0.0017 B	0.066 A
		Benzene	71-43-2	0.14 B	36. A
		Benzo(a)anthracene	56-55-3	0.059 B	8.2 A
		Benzo(b)fluoranthene	205-99-2	0.055 B	3.4 A
			207-08-9		
		Benzo(k)fluoranthene		0.059 B	3.4 A
		Benzo(g,h,i)perylene	$\frac{191-24-2}{2}$	0.0055 B	1.5 A
		Benzo(a)pyrene	50-32-8	0.061 В	8.2 A
		Bromodichloromethane	75-27-4	0.35 B	15. A
		Bromoform (Tribromo-	75-25-2	0.63 B	15. A
		methane)			
		Bromomethane (methyl	74-63-9	0.11 в	15. A
		bromide)			

4-Bromophenyl phenyl ether		0.055 B	15. A
n-Butyl alcohol	71-36-3	5.6 B	2.6 A
Butyl benzyl phthalate	85-68-7	0.017 B	7.9 A
2-sec-Buty1-4,6-dinitro-	88-85-7	0.066 B	2.5 A
phenol	FC 00 F	0 0F7 D	
Carbon tetrachloride Carbon disulfid e	56-23-5	0.057 B	5.6 A
Chlordane	75-15-0 57-74-9	0.014 B	NA 0 13 7
p-Chloroaniline	57-74-5 106-47-8	0.0033 B	0.13 A
Chlorobengene	$\frac{108-90-7}{108-90-7}$	0.46 B	16. A
Chlorobengilate	510-15-6	0.057 B 0.10 B	5.7 A NA
2-Chloro-1,3-butadiene	$\frac{510-15-0}{126-99-8}$	0.057 B	NA NA
Chlorodibromomethane	$\frac{120}{124}$	0.057 B	16. A
Chloroethane	75-00-3	0.27 B	6.0 A
bis(2-Chloroethoxy)methane		0.036 B	7.2 A
bis(2-Chloroethyl) ether	$\frac{111-44-4}{111-44-4}$	0.033 B	7.2 A
Chloroform	67-66-3	0.046 B	5.6 A
bis(2-Chloroisopropyl)	39638-32-9	0.040 B	7.2 A
ether	57050 52 7	0.000 1	7.2.11
p-Chloro-m-oresol	59-50-7	0.018 B	14. A
Chloromethane (Methyl	74-87-3	0.19 B	33. A
chloride)			
2-Chloronaphthalene	91-8-7	0.055 B	5.6 A
2-Chlorophenol	95-57-8	0.044 B	5.7 A
3-Chloropropene	107 - 05 - 1	0.036 B	28. A
Chrysene	218-01-9	0.059 B	8.2 A
e-Cresel	95-48-7	0.11 B	5.6 A
Cresol (m- and p-isomers)		0.77 B	3.2 A
Cyclohexanone	108-94-1	0.36 B	NA
1,2-Dibromo-3-chloro-	96-12-8	0.11 B	15. A
propane			
1,2-Dibromoethane	106-93-4	0.028 B	15. A
(Ethylene dibromide)			
Dibromomethane	74-95-3	0.11 B	15. A
2,4-Dichlorophenoxyacetic	94-75-7	0.72 B	10. A
acid (2,4-D)			
o,p'-DDD	53-19-0	0.023 B	0.087 A
prp'-DDD	72-54-8	0.023 B	0.087 A
o,p'-DDE	3424-82-6	0.031 B	0.087 A
p,p'-DDE	72-55-9	0.031 B	0.087 A
o,p'-DDT	789-02-6	0.0039 B	0.087 A
p,p'-DDT Dibenzo(a,h)anthracene	50-29-3 53-70-3	0.0039 В 0.055 В	0.087 A
· · · ·	33-70-8 192-65-4	0.061 A	8.2 A NA
Dibenzo(a,c)pyrene m-Dichlorobenzene	541-73-1	0.036 B	6.2 A
o-Dichlorobenzene	95-50-1	0.088 B	6.2 h
p-Dichlorobenzene	$\frac{106-46-7}{106-46-7}$	0.090 B	6.2 A
Dichlorodifluoromethane	75-71-8	0.23 B	7.2 A
1,1-Dichloroethane	75-34-3	0.059 B	7.2 A
1,2-Dichloroethane	$\frac{+9}{107-06-2}$	0.21 B	7.2 A
1,1-Dichloroethylene	75-35-4	0.025 B	33. A
trans-1,2-Dichloroethylene	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.054 B	33. A
2,4-Dichlorophenol	120-83-2	0.044 B	14. A
2,6-Dichlorophenol	87-65-0	0.044 B	14. A
1,2-Dichloropropane	78-87-5	0.85 B	18. A
cis-1,3-Dichloropropene	10061-01-5	0.036 B	18. A
trans-1,3-Dichloropropene	10061-02-6	0.036 B	18. A
Dieldrin	60-57-1	0.017 B	0.13 A
Diethyl phthalate	84-66-2	0.20 B	28. A
2,4-Dimethyl phenol	105-67-9	0.036 B	14. A
Dimethyl-phthalate	131-11-3	0.047 B	28. A
Di-n-butyl phthalate	84-74-2	0.057 В	28. A

1,4-Dinitrobenzene	100-25-4		0.32 B	2.3 h
4,6-Dinitro-o-cresol	534-52-1		0.28 B	160. A
2,4-Dinitrophenol	51-28-5		0.12 B	160. A
2,4-Dinitrotoluene	121-14-2		0.32 B	140 A
2,6-Dinitrotoluene	606-20-2		0.55 B	28. A
Di-n-octyl phthalate	117-84-0		0.017 B	28. A
Di-n-propylnitrosoamine	621-64-7		0.40 B	14 A
Diphenylamine	$\frac{122 - 39 - 4}{122 - 39 - 4}$		0.52 B	NA
1,2-Diphenyl hydrazine	$\frac{122-55-7}{122-66-7}$		0.087 B	NA
	621-64-7		0.40 B	NA
Diphenylnitrosoamine	$\frac{021-04-7}{123-91-1}$		0.12 B	170. A
1,4-Dioxane				
Disulfoton	298-04-4		0.017 B	6.2 A
Endosulfan I	939-98-8		0.023 В	0.066 A
Endosulfan-II	33213-6-5		0.029 B	0.13 A
Endosulfan sulfate	1031-07-8		0.029 B	0.13 A
Endrin	72-20-8		0.0028 B	0.13 A
Endrin-aldehyde	7421-93-4		0.025 B	0.13 A
Ethyl acetate	141 - 78 - 6		0.34 B	33. A
Ethyl cyanide	107 - 12 - 0		0.24 B	360. A
Ethyl benzene	100-41-4		0.057 B	6.0 A
Ethyl ether	60-29-7		0.12 B	160. A
bis(2-Ethylhexyl)	117-81-7		0.28 B	28. A
phthalate				
Ethyl methaorylate	97-63-2		0.14 B	160. A
Ethylene oxide	75-21-8		0.12 B	NA
Famphur	52-85-7		0.017 B	15. A
Fluoranthene	206-44-0		0.068 B	8.2-A
Fluorene	86-73-7		0.059 B	4.0 A
Fluorotrichloromethane	75-69-4		0.020 B	33. A
Heptachlor	76-44-8		0.0012 B	0.066 A
➡	$\frac{1024-57-3}{1024-57-3}$		0.016 B	0.066-A
Heptachlor epoxide				
Hexachlorobenzene	$\frac{118-74-1}{2}$		0.055 B	37. A
Hexachlorobutadiene	87-68-3		0.055 B	28. A
Hexachlorocyclopentadiene	77-47-4		0.057 B	3.6 A
Hexachlorodibenzofurans		_	0.000063	0.001 A
		₿		
Hexachlorodibenzo-p-			0.000063	0.001 A
dioxins		₽		
Hexachloroethane	67-72-1		0.055-В	28. A
Hexachloropropene	1888-71-7		0.035 В	28. A
Indeno(1,2,3,-c,d)pyrene	193-39-5		0.0055 B	8.2 A
Iodomethane	74-88-4		0.019 В	65. A
Isobutanol	78-83-1		5.6 B	170. A
Isodrin	465-73-6		0.021 B	0.066 A
Isosafrole	120-58-1		0.081 B	2.6 A
Kepone	143-50-8		0.0011 В	0.13 A
Mothacrylonitrile	126-98-7		0.24 B	84. A
Methanol	67-56-1		5-6-B	NA
Methapyrilene	91-80-5		0.081 B	1.5 A
Methoxychlor	72-43-5		0.25 B	0.18 A
3-Methylcholanthrene	56-49-5		0.0055 B	15. A
4-4-Methylene-bis-(2-	$\frac{101-14-4}{101-14-4}$		0.50 B	35. A
	TOT 11 1		0150 9	554-11
chloroaniline)	75.00.2		0 000 0	7 2 N
Methylene chloride	75-09-2		0.089 B	33. A
Methyl ethyl ketone	78-93-3		0.28 B	36. A
Methyl isobutyl ketone	$\frac{108-10-1}{2}$		0.14 В	33. A
Methyl-methacrylate	80-62-6		0.14 B	160. A
Methyl methansulfonate	66-27-3		0.018 B	NA
Methyl parathion	298 - 00 - 1		0.014 B	4.6 A
Naphthalene	91-20-3		0.059-B	3.1 A
2-Naphthylamine	91-59-8		0.52 В	NA
p-Nitroaniline	100-01-6		0.028 B	28. A

Nitrobenzene	98-95-3		0.068 B	1	4 . N
5-Nitro-o-toluidine	99-55-8		0.32 B		8. A
4-Nitrophenol	100 - 02 - 7		0.12 B	2	9. A
N-Nitrosodiethylamine	55-18-5		0.40 B	2	8 . A
N-Nitrosodimethylamine	62-75-9		0.40 B		NA
N-Nitroso-di-n-butylamine	924-16-3		0.40 B	1	7. A
N-Nitrosomethylethylamine	105-95-6		0.40 B		2.3 A
N-Nitrosomorpholine	59-89-2		0.40 B		2.3 A
N-Nitrosopiperidine	100-75-4		0.013 B	3	5. A
N-Nitrosopyrrolidine	930-55-2		0.013 B	3	5. A
Parathion	56-38-2		0.014 B		4.6 A
Pentachlorobensene	608-93-5		0.055 B	3	7. A
Pentachlorodibenzo-furans			0.000063		0.001 A
		₽			
Pentachlorodibenso-p-			0.000063		0.001 A
dioxins		₽			
Pentachloronitrobenzene	82-68-8		0.055 B		4.8 A
Pentachlorophenol	87-86-5		0.089 B		7.4 A
Phenacetin	62-44-2		0.081 B	1	6. A
Phenanthrene	85-01-8		0.059 B		3.1 A
Phenol	108-95-2		0.039 В		6.2 A
Phorate	298-02-2		0.021 B		4.6 A
Phthalic anhydride	85-44-9		0.69 B		NA
Pronamide	23950-58-5		0.093 B		1.5 A
Pyrene	129-00-0		0.067 В		8.2 A
Pyridine	110-86-1		0.014 B	1	6. A
Safrole	94-59-7		0.081 B	2	2. A
Silvex (2,4,5-TP)	93-72-1		0.72 B		7.9 A
2,4,5-T	93-76-5		0.72 В		7.9 A
1,2,4,5-Tetrachlorobenzene	95-94-3		0.055 B		9. A
Tetrachlorodibengofurans			0.000063		0.001 A
		₿			
Tetrachlorodibenzo-p-		-	0.000063		0.001 A
dioxins	600 00 C	₽			~ ~
1,1,1,2-Tetrachloroethane	630-20-6		0.057 B		2. A
1,1,2,2-Tetrachloroethane	79-34-6		0.057 B		2. A
Tetrachloroethylene	127-18-4		0.056 B		5.6 A
2,3,4,6-Tetrachlorophenol	58-90-2		0.030 B		7. A
Toluene	108-88-3		0.080 B		8. A
Toxaphene	8001-35-1		0.0095 B		1.3 A
1,2,4-Trichlorobensene	120-82-1		0.055 B		9. A
1,1,1-Trichloroethane	71-55-6		0.054 B		5.6 A
1,1,2-Trichloroethane	79-00-5 79-01-6		0.054 B 0.054 B		5.6 A
Trichloroethylene 2,4,5-Trichlorophenol				2	5.6 A
2,4,5-Trichlorophenol	95-95-4 88-06-2		0.18 В 0.035 В		7. A
$\frac{2}{2}$			0.85 B		8. A
1,2,3-Trichloropropane	96-18-4		0.057 B		8. A
1,1,2-Trichloro-1,2,2-tri- fluoroethane	+0-13-1		0.037 D	z	01 11
	126-72-7		0 11 B		NA
Tris(2,3-dibromopropyl)-	120 12 1		0.11 B		NA
phosphate Vinyl-chloride	75-01-4		0.27 В	2	3. A
Xylene(s)	75-01 1		0.32 B		8. A
Cyanides (Total)	57-12-5		$\frac{0.52}{1.2}$ B	z	1.8 A
Fluoride	16964-48-8		35. B		NA
Sulfide	8496-25-8		14. B		NA
Antimony	7440-36-0		1.9 B		NA
Arsenic	7440-38-2		$\frac{1.9}{1.4}$ B		NA NA
Barium	7440-39-3		1.2 B		NA
Beryllium	7440-41-7		0.82 B		NA NA
Gadmium	7440-43-9		0.20 B		NA
	7440-47-32		0.37 B		NA
Chromium (Total)	7440 47 52		0157 5		IVIII

		Copper	7440-50-8	1.3 B	NA
		Lead	7439-92-1	0.28 B	NA
		Mercury	7439-97-6	0.15 B	NA
		Nickel	7440-02-2	0.55 B	NA
		Selenium	7782-49-2	0.82 B	NA
		Silver	7440-22-4	0.29 B	NA
		Thallium	7440-28-0	1.4 B	NA
		Vanadium	7440-62-2	0.042 B	NA
		<u>Binc</u>	7440-66-0	1.0 B	NA
<u> K001</u>	Table A	Naphthalene	91-20-3	0.031 A	1-5-A
		Pentachlorophenol	87-86-5	0.031 A	1-5-A
		Phenanthrene	85-01-8	0.18 A	7.4 A
		Pyrene	129-00-0	0.028 A	1.5 A
		Toluene	108-88-3	0.028 A	28. A
		Xylenes (Total)		0.032 A	33. A
		Lead	7439-92-1	0.037 A	NA
K002	Table A	Chromium (Total)	7440-47-32	0.9 B	NA
ROOL	Table II	Lead	7439-92-1	3.4-B	NA
		Beau		314 - 0	1411
кооз	Table A	Chromium (Total)	7440-47-32	0.9 В	NA
		Lead	7439-92-1	3.4 B	NA
2004		Chromium (Motol)	7440 47 20	0.0.8	NT 75
X004	Table n	Chromium (Total) Lead	7440-47-32 7439-92-1	0.9 B	NA
		bead	/439-92-1	3.4 B	NA
K005	Table A	Chromium (Total)	7440-47-32	0.9 B	NA
		Lead	7439-92-1	3.4 B	NA
		Cyanides (Total)	57-12-5	0.74 B	D
1006		Chuomium (Motol)	7440 47-22	0.9 B	
KUUD	Tapie-n	Chromium (Total)	7440-47-32 7439-92-1	0.9 B 3.4 B	NA
		Lead	-/439-92-1	3.4 B	NA
K007	Table A	Chromium (Total)	7440-47-32	0.9 B	NA
		Lead	7439-92-1	3.4 B	NA D
		Cyanides (Total)	57-12-5	0.74 B	
кооз	Tablo_A	Chromium (Total)	7440-47-32	0.9 B	NA
ROOD	Tubic II	Lead	$\frac{7439-92-1}{7439-92-1}$	3-4-B	NA
		Bead	1437 72 1		mm
кооэ	NA	Chloroform	67-66-3	0.1	6.0 A
к010	NA	Chloroform	67-66-3	0.1	6.0
	••••	Unit U U U U U U U U U U		•••	
K011	NA	Acetonitrile	75-05-8	38.	1.8
		Aorylonitrile	$\frac{107 - 13 - 1}{107 - 13 - 1}$	0.06	1.4
		Aorylamide	79-06-1	19.	23.
		Benzene	71-43-2	0.02	0.03
		Cyanide (Total)	57-12-5	21.	57.
K013	NA	Acctonitrile	75-05-8	38.	1.8 A
2 . w .h W		Acrylonitrile	$\frac{107-13-1}{107-13-1}$	0.06	1.4 A
		Acrylamide	79-06-1	19.	23. A
		Bensene	$\frac{71-43-2}{71-43-2}$	0.02	0.03 A
		Cyanide (Total)	57-12-5	$\frac{21}{21}$	57.
K014	NA	Acetonitrile	75-05-8	38.	1.8 A
		Aorylonitrile	$\frac{107 - 13 - 1}{107 - 13 - 1}$	0.06	1.4 A
		Acrylamide	79-06-1	19.	23. A
		Benzene	$\frac{71-43-2}{10}$	0.02	0.03 A
		Gyanide (Total)	57-12-5	21.	57.

K015	Table A	Anthracene	120-12-7	0.059	3.4 A
		Benzal Chloride	98-87-3	0.28	6.2 A
		Sum of Benzo(b)fluoran-	207-08-9	0.055	3.4
		thene and Benzo(k)fluoran-			
		thene			
		Phenanthrene	85-01-8	0.059	3.4 A
		Toluene	108-88-3	0.08	6.0 A
		Chromium (Total)	7440-47-32	0.32	NA
		Nickel	7440-02-0	0.44	NA
K016	NA	Hexachlorobensene	118 - 74 - 1	0.055	28. A
		Hexachlorobutadiene	87-68-3	0.055	5.6 A
		Hexachlorocyclopentadiene	77-47-4	0.057	5.6 A
		Hexachloroethane	67-72-1	0.055	28. A
		Tetrachloroethene	127-18-4	0.056	6.0 A
			~~ ~~ ~		
K017	NA	1,2-Dichloropropane	78-87-5	0.85 A B	18. A
		1,2,3-Trichloropropane	96-18-4	0.85 A B	28. A
		Bis(2-chloroethyl)ether	111-44-4	0-033 A B	7-2-A
7010		Ohloweethere	76 00 7	0.27	603
K018	NA	Chloroethane	76-00-3	0.27	6.0 A
		Chloromethane	74-87-3	0.19	NA COD
		1,1-Dichloroethane 1,2-Dichloroethane	75-34-3 107-06-2	0.059 0.21	6.0 A 6.0 A
			$\frac{10}{118}$		
		Hexachlorobenzene	87-68-3	0.055 0.055	28. A 5.6 A
		Hexachlorobutadiene Pentachloroethane		NA	5+6
		1,1,1-Trichloroethane	$\frac{70-01-7}{71-55-6}$	0.054	6.0
		Hexachloroethane	$\frac{71-33-5}{67-72-1}$	0.055	28. A
		nexactitoroconane	07-72 1	01000	201 11
K019	NA	Bis(2-chloroethyl) ether	111-44-4	0-033	5.6 A
NOT?	TITE	Chlorobengene	108 - 90 - 7	0.053	6.0 A
		Chloroform	67-66-3	0.046	6.0 A
		p-Dichlorobengene	$\frac{106-46-7}{106-46-7}$	0.09	NA
		1,2-Dichloroethane	107-06-2	0-21	6.0 A
		Fluorene	86-73-7	0.059	NA
		Hexachloroethane	67-72-1	0.055	28. A
		Naphthalene	91-20-3	0.059	5.6 A
		Phonanthrene	85-01-8	0.059	5.6 A
		1,2,4,5Tetrachlor-	95-94-3	0.055	NA
		obenzene			
		Tetrachloroethene	127 - 18 - 4	0.056	6.0 A
		1,2,4-Trichlorobenzene	$\frac{120 - 82 - 1}{120 - 82 - 1}$	0.055	19. A
		1,1,1-Trichloroethane	71-55-6	0.054	6.0 A
K020	NA	1,2-Dichloroethane	106-93-4	0.21	6.0 A
		1,1,2,2-Tetrachloroethane	79-34-6	0.057	5.6 A
		Tetrachloroethene	127 - 18 - 4	0.056	6.0 A
K021	Table A	Chloroform	67-66-3	0.046 B	6.2 A
		Carbon tetrachloride	58-23-5	0.057 B	6-2 A
		Antimony	7440-36-0	0.60 B	6.2 A
			100 00 0	0 000 -	0 001 -
8022	Table A		108-88-3	0.080 В	0.034 A
		Acetophenone Dishesularias	96-86-2	0.010	19. A
		Diphenylamine Diphenylaitmogonine	22-39-4 86-30-6	0.52 B	NA NA
		Diphenylnitrogamine	0-00-0	0.40 B	NA 1.2 n
		Sum of Diphenylamine and		NA	13. A
		Diphenylnitrosamine	108-95-2	0.039	12. A
		Phenol Chromium (Total)	108-95-2 7440-47-32	0.035	
		Chromium (Total)	7440-47-32 7440-02-0	0.47	NA NA
		Nickel	7990-02-0	Urai	1111

к023	NA	Phthalic anhydride	85-44-9	0.069	28. A
		(measured as Phthalic asid)			
K024	NA	Phthalic anhydride	85-44-9	0.069	28. A
		(measured as Phthalic acid)			
K028	Table A	1,1-Dichloroethane trans- 1,2-	75-34-3	0.059	6.0 N
		Dichloroethane		0.054	6.0 A
		Hexachlorobutadiene	87-68-3	0.055	5.6 A
		Hexachloroethane	67-72-1	0.055	28. A
		Pentachloroethane	76-01-7	NA	5.6 A
		1,1,1,2-Tetrachloroethane	630-20-6	0.057	5-6-A
		1,1,2,2-Tetrachloroethane	79-34-6	0.057	5.6 A
		1,1,1,-Trichloroethane	71-55-6	0.054	6.0 A
		1,1,2-Trichloroethane	79-00-5	0.054	6.0 A
		Tetrachloroethylene	127 - 18 - 4	0.056	6.0 A
		Gadmium	7440-43-9	6-4	NA
		Chromium (Total)	7440-47-32	0.35	NA
		Lead	7439-92-1	0.037	NA
		Nickel	7440-02-0	0.47	NA
ко29	NA	Chloroform	67-66-3	0.46	6.0 A
		1,2-Dichloroethane	107 - 06 - 2	0.21	6.0 A
		1,1-Dichloroethylene	75-35-4	0.025	6.0 A
		1,1,1-Trishloroethane	71-55-6	0.054	6.0 A
		Vinyl chloride	75-01-4	0.27	6.0 A
к030	NA	o-Dichlorobensene	95-50-1	0.088	NA
		p-Dichlorobenzene	106-46-7	0.09	NA
		Hexachlorobutadiene	87-68-3	0.055	5.6 A
		Hexachloroethane	67-72-1	0.055	28. A
		Hexachloropropene	1888-71-7	NA	19. A
		Pentachlorobensene	608-93-5	NA	28. A
		Pentachloroethane	76-01-7	NA	5.6 A
		1,2,4,5-Tetrachlorobenzene		0.055	14. A
		Tetrachloroethene	$\frac{127 - 18 - 4}{127 - 18 - 4}$	0.056	6.0 A
		1,2,4-Trichlorobenzene	120-82-1	0.055	19. A
K031	Table A	Arsenic	7440-38-2	0.79	NA
к032	NA	Hexachlorocyclopentadiene	77-47-4	0.057 B	24. A
		Chlordane	57-74-9	0.0033 B	0.26 A
		Heptachlor	76-44-8	0.0012 B	0.066 A
		Heptachlor epoxide	1024-57-3	0.016 B	0.066 A
к033	NA	Hexachlorocyclopentadiene	77-47-4	0.057 B	2.4 A
к034	NA	Hexachlorocyclopentadiene	77-47-4	0.057 B	2.4 A
к035	NA	Acenaphthene	83-32-9	NA	3.4 A
		Anthracene	$\frac{120-12-7}{12}$	NA O EO P	3.4 A
		Benz(a)anthracene	56-55-3	0.59 B	3.4 A
		Benzo(a)pyrene	50-32-8	NA 0.059 В	3.4 A
		Chrysene Dibong (2, b) ant bracono	218-01-9 53-70-3	NA	3.4 h 3.4 h
		Dibenz(a,h)anthracene Fluoranthene	206-44-0	0.068 B	3.4 A
		Fluorene	200-44-0 86-73-7	NA	3.4 A
		Indeno(1,2,3-cd)pyrene	193-39-5	NA NA	3.4 A
		Cresols (m- and p-isomers)	—	0.77 B	NA
		scoore (m and b requerel			1113

		Naphthalene	91-20-3	0.059 B	3.4 A
		e-Cresol	95-48-7	0.11 B	NA
		Phenanthrene	85-01-8	0.059 B	3.4 A
		Phenol	108 - 95 - 2	0.039	NA
		Pyrene	129-00-0	0.067 B	8.2 A
к036	NA	Disulfoton	298-04-4	0.025 B	0.1 A
к037	NA	Disulfoton	298-04-4	0.025 B	0.1 A
		Toluene	108-88-3	0.080 B	28. A
K038	NA	Phorate	298-02-2	0.025	0.1 A
K040	NA	Phorate	298-02-2	0.025	0.1 A
K041	NA	Toxaphene	8001-35-1	0.0095 B	2.6 A
K042	NA	1,2,4,5-Tetrachlorobenzene	95-94-3	0.055 B	4.4 A
		o-Dichlorobenzene	95-50-1	0.088 B	4.4 A
		p-Dichlorobenzene	106-46-7	0.090 B	4-4-A
		Pentachlorobenzene	608-93-5	0.055 B	4-4-8
			$\frac{330-33-3}{120-82-1}$	0.055 B	4.4 A
		1,2,4-Trichlorobenzene	120-02-1	0.035 B	4.4-11
K043	NA	2,4-Dichlorophenol	120-83-2	0.044	0.38 A
1040	****	2,6-Dichloropheno	187-65-0	0.044	0.34 A
		2,4,5-Trichlorophenol	95-95-4	0.18	8.2 A
		2,4,6-Trichlorophenol	88-06-2	0.035	7.6 A
		Tetrachlorophenols (Total)		NA	0.68 A
		Pentachlorophenol	87-86-5	0.089	1.9 A
		Tetrachloroethene	79-01-6	0.056	1.7 A
		Hexachlorodibenzo-p-		0.000063	0.001 A
		dioxing			
		Hexachlorodibenzofurans		0.000063	0.001 A
		Pentachlorodibenzo-p-		0.000063	0.001 A
		dioxing Destablesediberro fuser		0.00063	0 001 1
		Pentachlorodibenzo furans		0.000063	0.001 A
		Tetrachlorodibenzo-p- dioxins		0.000063	0.001 A
		Tetrachlorodibenzo-furans		0.000063	0.001 A
K046	Table A	Fead	7439-92-1	0.037	NA
K048	Table A	Benzene	71-43-2	0.14 B	14. A
1040	10010		50-32-8	0.061 B	12 A
		Benzo(a) pyrene	$\frac{30}{117-81-7}$	0.28 B	
		Bis(2-ethylhexyl) phthalate	11/01-/	0.20 B	7.3 A
		Chrysene	218-01-9	0.059 B	15. A
			84-74-2	0.057 B	
		Di-n-butylphthalate			3.6 A
		Ethylbenzene	100 - 41 - 4	0.057 B	14. A
		Fluorene	86-73-7	0.059 B	NA
		Naphthalene	91-20-3	0.059 B	42. A
		Phenanthrene	85-01-8	0.059 B	34. A
		Phenol	108 - 95 - 2	0.039 B	3.6 A
		Pyrene	129-00-0	0.067 B	36. A
		Toluene	$\frac{129}{108-88-3}$	0.080 B	$\frac{14}{14}$
			700 00 0	0.32 B	22. A
		Xylene(s) Cwanidag (Total)	E7.10 E		
		Cyanides (Total)	57-12-5	0.028 A	1.8 A
		Chromium (Total)	7440-47-32	0.2	NA
		Lead	7439-92-1	0.037	NA
K049	Table »	Anthracene	120-12-7	0.059 B	28. A
NO TO	TUDIC H	_	71-43-2	0.14 B	14. A
		Benzene	71 4 5 E	0111 D	T41 U

		Benzo(a)pyrene	117-81-7	0.061 B	12. A
		Bis(2-ethylhexyl)	75-150-0	0.28 B	7.3 A
		phthalate			
		Garbon disulfide	75-15-0	0.014 B	NA
		Chrysene	2218-01-9	0.059 B	15. A
		2,4-Dimethyl-phenol	105-67-9	0.036 B	NA
		Ethylbenzene	100 - 41 - 4	0.057 B	14. A
		Naphthalene	91-20-3	0.059 B	42. A
		Phenanthrene	85-01-8	0.059 B	34. A
		Phenol	108-95-2	0.039 В	3.6 A
		Pyrene	129-00-0	0.067 B	36. A
		Toluene	108-88-3	0.08 B	14. A
		Xylene(s)		0.32 B	22. A
		Cyanides (Total)	56-12-5	0.028 A	1.8 A
		Chromium (Total)	7440-47-32	0+2	NA
x050	Table A	Lead	7439-92-1	0.037	NA
		Benzo(a)pyrene	50-32-8	0.061 B	12. A
		Phenol	108-95-2	0.039 B	3.6 A
		Cyanides (Total)	57-12-5	0.028 A	1.8 A
		Chromium (Total)	7440-47-32	0.2	NA
		Lead	7439-29-1	0.037	NA
K051	Table A	Acenaphthene	208-96-8	0.059 B	NA
		Anthracene	$\frac{120 - 12 - 7}{12 - 7}$	0.059 B	28. A
		Benzene	71-43-2	0.14 B	14. A
		Benso(a) anthracene	$\frac{117 - 81 - 7}{1}$	0.059 B	20. A
		Benzo(a)pyrene	$\frac{117 - 81 - 7}{1}$	0.061 B	12 A
		Bis(2-cthylhexyl)	75-15-0	0.28 B	7.3 A
		phthalate Chrysene	2218-01-9	0.059 B	15. A
		Di-n-butyl phthalate	$\frac{105-67-9}{105-67-9}$	0.057 B	3.6 A
		Ethylbenzene	$\frac{100-41-4}{100-41-4}$	0.057 B	14. A
		Fluorene	86-73-7	0.059 B	NA
		Naphthalene	91-20-3	0.059 B	42. A
		Phenanthrene	85-01-8	0.059 B	34. A
		Phenol	$\frac{108-95-2}{108-95-2}$	0.039 B	3.6 A
		Pyrene	129-00-0	0.067 В	36. A
		Toluene	108-88-3	0.08 B	$\frac{14}{14}$
		Xylene(s)	100 00 0	0.32 B	22. A
		Cyandides (Total)	57-12-5	0.028 A	1.8 A
		Chromium (Total)	7440-47-32	0.2	NA
		Lead	7439-29-1	0.037	NA
		Benzene	71-43-2	0.14 B	14. A
		Benzo(a)pyrene	50-32-8	0.061 B	12. A
K052	Table A	o-Cresol	95-48-7	0.11 B	6.2 A
		p-Cresol	$\frac{106-44-5}{105}$	0.77 B	6.2 A
		2,4-Dimethylphenol	105-67-9	0.036 B	NA
		Ethylbenzene	$\frac{100-41-4}{2}$	0.057 B	14. A
		Naphthalene	91-20-3	0.059 B	42. A
		Phenanthrene	85-01-8	0.059 B	34. A
		Phenol The New York	$\frac{108-95-2}{100}$	0.039 B	3.6 A
		Toluene	108-88-3	0.08 B	14. A
		Xylenes Cyanidar (Total)	EC 10 E	0.32 B	22. A
		Cyanides (Total)	56-12-5	0.028 h	1.8 A
		Chromium (Total)	7440-47-32 7439-92-1	0.2 0.037	NA NA
		Lead	/437-72-1	0.037	NA
к060	NA	Benzene	71-43-2	0.17 B	0.071 A
		Benzo(a)pyrene	50-32-8	0.035 B	3.6 A
		Naphthalene	91-20-3	0.028 B	3.4 A

		Phenol Cyanides (Total)	108-95-2 57-12-5	0.042 В 1.9	3.4 A 1.2
K061	Table A	Cadmium Chromium (Total) Lead Nickel	7440-43-9 7440-47-32 7439-92-1 7440-02-0	1.61 0.32 0.51 0.44	NA NA NA NA
K062	Table A	Chromium (Total) Lead Nickel	7440-47-32 7439-92-1 7440-02-0	0.32 0.04 0.44	NA NA NA
K069	Tables A & D	Cadmium Lead	7440-43-9 7439-92-1	1.6 0.51	NA NA
K071	Table A		7439-97-6	0.030	NA NA
K071	Tuble II	Mercury	7435-57-60	01030	IIII
K073	NA	Carbon tetrachloride Chloroform Hexachloroethane Tetrachloroethene 1,1,1-Trichloroethane	58-23-5 67-66-3 67-72-1 127-18-4 71-55-6	0.057 B 0.046 B 0.055 B 0.056 B 0.054 B	6.2 A 6.2 A 30. A 6.2 A 6.2 A
x083	Table A	Benzene Aniline Diphenylamine Diphenylnitrosamine Sum of Diphenylamine and Diphenylnitrosamine Nitrobensene Phenol Cyclohexanone	71-43-2 62-53-3 22-39-4 86-30-6 98-95-3 108-95-2 108-94-1	0.14 B 0.81 B 0.52 B 0.40 B NA 0.068 B 0.039 0.36	6.6 A 14. A NA NA 14. A 14. A 5.6 A 30. A
		Nickel	7440-02-0	0.47	NA
K08 4	NA	Arsenic	7440-38-2	0.79	NA
x085	NA	Benzene Chlorobenzene o-Dichlorobenzene m-Dichlorobenzene 1,2,4-Trichlorobenzene 1,2,4,5-Tetrachlorobenzene Pentachlorobenzene Hexachlorobenzene Aroclor 1016 Aroclor 1221 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1254 Aroclor 1260	$\begin{array}{r} 71-43-2\\ 108-90-7\\ 95-50-1\\ 541-73-1\\ 106-46-7\\ 120-82-1\\ 95-94-3\\ 608-93-5\\ 118-74-1\\ 12674-11-2\\ 1104-28-2\\ 11104-28-2\\ 11141-16-5\\ 53469-21-9\\ 12672-29-6\\ 11097-69-1\\ 11096-82-5\\ \end{array}$	0.14 B 0.057 B 0.088 B 0.036 B 0.090 B 0.055 B 0.055 B 0.055 B 0.055 B 0.055 B 0.013 B 0.014 B 0.013 B 0.013 B 0.013 B 0.013 B 0.013 B 0.014 B 0.014 B 0.014 B	4.4 A 4.4 A 4.4 A 4.4 A 4.4 A 4.4 A 4.4 A 4.4 A 4.4 A 0.9 A 0.92 A 0.92 A 0.92 A 0.92 A 0.92 A 0.92 A 1.8 A
K085	Table A	Acetone Acetophenone Bis(2-ethylhexyl)phthalate n-Butyl-alcohol Butylbenzylphthalate syclohexanone 1,2-Dichlorobenzene Diethyl-phthalate	$ \frac{67-64-1}{96-86-2} \\ \frac{117-81-7}{71-36-3} \\ \frac{85-68-7}{108-94-1} \\ \frac{95-50-1}{84-66-2} $	0.28 0.010 0.28 B 5.6 0.017 B 0.36 0.088 0.20 B	160. A 9.7 A 28. A 2.6 A 7.9 A NA 6.0 A 28. A

28. A **Dimethyl** phthalate 131-11-3 0.047 В Di-n-butyl phthalate 84-74-2 0.057 B 28. A Di-n-octyl phthalate 117-84-0 0.017 B 28. A 141-78-6 33. A Ethyl-acetate 0.34 B 100 - 41 - 40.057 B 6.0 A Ethylbenzene 5.6 B Methanol 67-56-1 NA 0.14 Methyl isobutyl ketone 108 - 10 - 133. A Methyl ethyl ketone 78-93-3 0.28 36. A Methylene chloride 75-09-2 0.089 B 33. A 0.059 B Naphthalene 91-20-3 3.1 A 0.068 B Nitrobenzene 98-95-3 14. A 108 - 88 - 30.080 B 28. A Toluene 1,1,1-Trichloroethane 71-55-6 0.054 B 5.6 A Trichloroethylene 79-01-6 0.054 B 5.6 A Xylene(s) (Total) 0.32 B 28. A 57-12-5 1,9 Cyanides (Total) 1.5 7440-47-32 0.32 Chromium (Total) NA Lead 7439-92-1 0.037 NA 3.4 K087 Table A Acenaphthalene 208-96-8 0.059 B 71-43-2 0.071 A Benzene 0.14 B 218-01-9 3.4 A 0.059 B Chrysene 3.4 A Fluoranthene 206-44-0 0.068 B Indeno (1,2,3-cd) pyrene 193-39-5 3.4 A 0.0055 B Naphthalene 91-20-3 0.059 B 3.4 A 0.059 B Phenanthrene 85-01-8 3.4 A 108-88-3 0.08-B 0.65 A Toluene <u>Xylenes</u> 0.32 B 0.07 A 7439-92-1 Lead 0.037 NA <u> x093</u> NA Phthalio anhydride 85-44-9 0.069 28. A (measured as Phthalic acid) K094 NA Phthalic anhydride 85-44-9 0.069 28. A (measured as Phthalic acid) 0.057 K095 NA 1,1,1,2-Tetrachloroethane 630-20-6 5.6 A 5.6 A 1,1,2,2-Tetrachloroethane 79-34-6 0.057 **Tetrachloroethene** 127-18-4 0.056 6.0 A 1,1,2-Trichloroethane 79-00-5 0.054 6.0 A Trichloroethylene 79-01-6 0.054 5.6 A 28. A Hexachloroethane 67-72-1 0.055 Pentachloroethane 76-01-7 0.055 5.6 A K096 NA 1,1,1,2-Tetrachloroethane 630-20-6 0.057 5.6 A 0.057 1,1,2,2-Tetrachloroethane 79-34-6 5.6 A 0.056 127-18-4 **Tetrachloroethene** 6.0 A 0.054 1,1,2-Trichloroethane 79-00-5 6.0 A 79-01-6 0.054 5.6 A Trichloroethene (Trichloroethylene) 541-73-1 5.6 A 1,3-Dichlorobenzene 0.036 76-01-7 Pentachloroethane 0.055 5.6 A 120-82-1 0.055 1,2,4-Trichlorobensene 19. A Hexachlorocyclopentadiene 77-47-4 0.057 B 2.4 K097 NA **Chlordane** 57-74-9 0.0033 B 0.26 A 76-44-8 0.0012 B 0.066 A Heptachlor Heptachlor epoxide 1024-57-3 0.016 B 0.066 A K098 NA Toxaphene 8001-35-1 0.0095 B 2.6 A

8099	NA	2,4-Dichlorophenoxyacetic acid	94-75-7	1.0 A	1.0 A
		Hexachlorodibenzo-p-		0.001 h	0.001 A
		Hexachlorodibenzofurans		0.001 A	0.001 A
		Pentachlorodibenzo-p-		0.001 A	0.001 A
		Pentachlorodibengofurang		0.001 A	0.001 A
		Tetrachlorodibenzo-p-		0.001 A	0.001 A
		Tetrachlorodibensofurans		0.001 A	0.001 A
к100	Table A	Gadmium	7440-43-9	1.6	NA
		Chromium (Total)	7440-47-32	0.32	NA
		Lead	7439-92-1	0.51	NA
K101	NA	o-Nitroaniline		0.27 A	14. A
RIUI	1411	Arsenic	7440-38-2	0.79	NA
		Gadmium	7440-43-9	0.24	NA
		Lead	7439-92-1	0.17	NA
		Mercury	7439-97-6	0.082	NA
		-	7-200 07 0		
K102	Table-A	e-Nitrophenel		0.028 A	13. A
		Arsenie	7440-38-2	0.79	NA
		Cadmium	7440-43-9	0.24	NA
		Lead	7439-92-1	0.17	NA
		Mercury	7439-97-6	0.082	NA
K103	NA	Aniline	62-53-3	4.5 A	5.6
		Benzene	71-43-2	0.15 A	6.0 A
		2,4-Dinitrophenol	51-28-5	0.61 A	5.6 A
		Nitrobenzene	98-95-3	0.073 A	5.6 A
		Phenol	108-95-2	1.4 A	5.6 A
K104	NA	Aniline	62-53-3	4.5 A	5.6 A
		Benzene	71-43-2	0.15 A	6.0 A
		2,4-Dinitrophenol	51-28-5	0.61 A	5.6 A
		Nitrobenzene	98-95-3	0.073 A	5.6 A
		Phenol	108-95-2	1.4 A	5.6 A
		Gyanides (Total)	57-12-5	$\frac{2}{2}$	1.8 A
K105	NA	Benzene	71-43-2	0.14	4.4 A
		Chlorobenzene	108-90-7	0.057	4.4 A
		o-Dichlorobenzene	95-50-1	0.088	4-4-A
		p-Dichlorobenzene	106-46-7	0.090	4-4-A
		2,4,5-Trichlorophenol	95-95-4	0.18	4.4 A
		2,4,6-Trichlorophenol	88-06-2	0.035	4.4 A
		2-Chlorophenol	95-57-8	0.044	4.4 A
		Phenol	108-95-2	0.039	4.4 A
K106	Tables A-& B	Hereury	7439-97-6	0.030	NA
K115	Table A	Nickel	7440-02-0	0.47	NA
2111	NA	2,4-Dinitrotoluene	121-14-2	0.32	140. A
K111	NA		121-14-2 606-20-2		28. A
		2,6-Dinitrotoluene	000-20-2	0.55	20, 8
K117	NA	Ethylene dibromide	106-93-4	0.028	15. A
		Methyl bromide	74-83-9	0.11	15. A
		Chloroform	67-66-3	0.046	5.6 A

K118	NA	Ethylene dibromide Methyl bromide Chloroform	106-93-4 74-83-9 67-66-3	0.028 0.11 0.046	15. A 15. A 5.6 A
K131	NA	Methyl-bromide	74-83-9	0.11	15. A
K132	NA	Methyl-bromide	74-83-9	0.11	15. A
K136	NA	Ethylene dibromide Methyl bromide Chloroform	106-93-4 74-83-9 67-66-3	0.028 0.11 0.046	15. A 15. A 5.6 A

TABLE B (CCW): P AND U LISTED WASTES

Waste Code	Commercial Chemical Name	See Also	Regulated Hazardous Constituent	CAS No. for Regulated Hazardous Constituent	Concentra- tion (mg/L) Wastewaters	Concentra- tion (mg/L) Nonwaste- waters
₽004	Aldrin	NA	Aldrin	309-00-2	0.21 B	0.066 A
P010	Arsenic acid	I Table A	Arsenic	7440-38-2	0.79	NA
P011	Arsenic pentoxide	Table A	Arsenic	7440-38-2	0.79	NA
P012	Arsenic trioxide	Table A	A rsenio	7440-38-2	0.79	NA
P013	Barium eyanide	Table A	Cyanides (Total)	57-12-5	1.9	110.
	eyuntac		(Yanides (Amenable)	57-12-5	0.1	9.1
₽020	2-see-Butyl- 4,6-dinitro- phenol (Dinoseb)		2-sec-Butyl- 4 ,6-dinitro- phenol (Dinoseb)	88-85-7	0.066	
P021	Calcium cyanide	NA	Cyanides (Total)	57-12-5	1.9	110.
	eyuniae		(Yanides (Amenable)	57-12-5	0.1	9.1
P022	Carbon di- sulfide	Table D	Carbon di- sulfide	75-15-0	0.014	NA
₽024	p-Chloro- aniline	NA	p-Chloro- aniline	106-47-8	0.46	
₽029	Copper cyanide	NA	Cyanides (Total)	57-12-5	1.9	110.
	eyanide		(Amenable)	57-12-5	0.1	9.1
₽030	Cyanides (soluble salts and somplexes)	NA	Cyanides (Total)	57-12-5	1.9	110.
			Cyanides (Amenable)	57-12-5	0.1	9.1

P036	Dichloro- phenylarsine		Arcenic	7440-38-2	0.79	NA
P037	Dieldrin	NA	Dieldrin	60-57-1	0.017-В	0.13 A
P038	Dicthyl- arsinc	Table A	Arsenic	7440-38-2	0.79	NA
₽039	Disulfoton	NA	Disulfoton	298-04-4	0.017	0.1-A
P047	4,6-Dinitro- o-cresol	NA	4,6-Dinitro- o-cresol	534-52-4	0.28-B	160 A
P048	2,4-Dinitro- phenol	NA	2,4-Dinitro- phenol	51-28-5	0.12 B	
₽050	Endosulfan	NA	Endosulfan I Endosulfan II Endosulfan sulfat e	939-98-8 33213-6-5 1031-07-8	0.023-B 0.029-B 0.029-B	0.066 A 0.13 A 0.13 A
P051	Endrin	NA	Endrin Endrin aldehyde	72-20-8 7421-93-4	0.0028 B 0.025 B	0.13-A 0.13-A
P056	Fluoride	Table D	Fluoride	18694-48-8	35.	NA
₽059	Heptachlor	NA	Heptachlor Heptachlor epoxíde	76-44-8 1024-57-3	0.0012-В 0.016-В	0.066 A
P060	Isodrin	NA	Isodrin	465-73-6	<u>— 0.021 В</u>	0.066-A
P063	Hydrogen oyanide	NA	Gyanides (Total)	57-12-5	1.9	110.
	072		(yanides (Amenable)	57-12-5	0.10	971
P065	Mercury fulminate	Tables A-&-D	Mercury	7439-97~6	0.030	NA
P071	Methyl parathion	NA	Methyl parathion	298-00-0	0.025	0.1-A
P073	Nickel carbonyl	Table A	Níckel	7440-02-0	0.32	NA
P074	Nickel cyanide	Table A	Gyanides (Total)	57-12-5	1.9	110.
	-1		Cyanides (Amenable)	57-12-5	0.10	9.1
			Nickel	7440-02-0	0.44	NA
P077	p-Nitro- aniline	NA	p-Nitro- aniline	100-01-6	0.028 B	28 A
P082	N-Nitrosodi- methylamine	Table-D	N-Nitrosodi- methylamine	62-75-9	0.40-B	NA
P089	Parathion	NA	Parathion	56-38-2	0.025	

₽092	Phenylmer- cury-acetat e		Mercury	7439-97-6	0.030	NA
₽094	Phorate	NA	Phorate	298~02~2	0.025	
P097	Famphur	NA	Famphur	52-85-7	0.025	
9098	Potassium cyanide	NA	Cyanides (Total)	57-12-5	1.9	110.
	oyunzao		(local) Cyanides (Amenable)	57-12-5	0.10	9.1
P099	Potassium silver cyanide	Table-A	Cyanides (Total)	57-12-5	1.9	110.
	oyuntuo		Cyanides (Amenable)	57-12-5	0.1	9-1
			Silver	7440-22-4	0.29	NA
P101	Ethyl-cyan- ide (Pro- panenitrile)		Ethyl cyanide (Propane- nitrile)	107-12-0	0.24_B	
P103	Selenourea	Table A	Selenium	7782-49-2		NA
P104	Silver cyanide	Table A	Cyanides (Total)	57-12-5	1.9	110.
	- 1		Cyanides (Amenable)	57-12-5	0.10	9.1
			Silver	7440-22-4	0.29	NA
P106	Sodium cyanide	NA	Cyanides (Total)	57-12-5	1.9	110.
			Cyanides (Amenable)	57-12-5	0.10	9.1
P110						
1110	Tetraethyl lead	Tables A-&-D	Lead	7439-92-1	0.040	NA
P113		A & D	Lead Thallium	7439-92-1 7440-28-0	0.040 0.14-в	NA NA
	lead Thallic	A & D Table D				
P113	lead Thallic oxide Thallium selenite	A-&-D Table-D Table-A	Thallium Selenium	7440-28-0 7782-49-2	0•14-B	NA
P113 P114	lead Thallic oxide Thallium oclenite Thallium(I)	A-&-D Table-D Table-A Table-D	Thallium Selenium	7440-28-0 7782-49-2 7440-28-0	0+14-B 1+0	NA NA
P113 P114 P115 P119	lead Thallic oxide Thallium oclenite Thallium(I) oulfate Ammonia	A-&-D Table-D Table-A Table-D Table-D	Thallium Selenium Thallium	7440-28-0 7782-49-2 7440-28-0 7440-62-2	0+14-B 1+0 0+14-B	NA NA NA
P113 P114 P115 P119 P120	lead Thallic oxide Thallium selenite Thallium(I) oulfate Ammonia vanadate Vanadium	A-&-D Table D Table A Table D Table D Table D Table D	Thallium Selenium Thallium Vanadium Vanadium Gyanides	7440-28-0 7782-49-2 7440-28-0 7440-62-2		NA NA NA NA
P113 P114 P115 P119 P120	lead Thallic oxide Thallium oclenite Thallium(I) oulfate Ammonia vanadate Vanadium pentoxide	A-&-D Table D Table A Table D Table D Table D Table D	Thallium Selenium Thallium Vanadium Vanadium	7440-28-0 7782-49-2 7440-28-0 7440-62-2 7440-62-2		NA NA NA NA NA
P113 P114 P115 P119 P120 P121	lead Thallic oxide Thallium oclenite Thallium(I) oulfate Ammonia vanadate Vanadium pentoxide	A-&-D Table D Table A Table D Table D Table D Table D	Thallium Selenium Thallium Vanadium Vanadium Cyanides (Total) Cyanides	7440-28-0 $7782-49-2$ $7440-28-0$ $7440-62-2$ $7440-62-2$ $57-12-5$ $57-12-5$		NA NA NA NA NA 110. 9.1

2	0	2
- 2	ø	3

0003	Acetonitrile	Table D	Acetonitrile	75-05-8	0.17	0.17
0004	Acetophenone	NA	Acetophenone	98-86-2	0.010-A	9.7-A
0005	2-Acetyla- minofluorene	NA	2-Acetylami- nofluorene	53-96-3	0.059-В	
0009	Acrylo- nitrile	NA	Acrylonitrile	107-13-1	0.24-A	84 A
0012	Aniline	NA	Aniline	62-53-3	0.81	<u> 14. </u>
0018	Benz(a)- anthracene	NA	Benz(a)- anthracene	56-55-3	0.059 B	8.2 A
0019	Benzene	NA	Benzene	71-43-2	0-14-B	36 h
0022	Benzo(a)- pyrene	NA	Benzo(a)- pyrene	50-32-8	0.061 B	8.2-A
U024	Bis(2-chlor- oethoxy)met- hanc		Bis(2-chloro- ethoxy)meth- ane	111-91-1	0.036	7.2 A
0025	Bis(2- chloroethyl) cther	NA	Bis(2-chloro- ethyl) ether	111-44-4	0.033	7.2 A
0027	Bis(2-chlor- oisopropyl) cther	NA	Bis(2-chloro- isopropyl) cther	39638-32-9	0.055	7.2 A
0028	Bis(2-ethyl- hexyl)- phthalate	NA	Bis(2-ethyl- hexyl)- phthalate	117-81-7	0.28 A	28. A
0029	Bromomethane {Methyl bromide}	NA	Bromomethane (Methyl bromide)	74-83-9	0.11-A	15. A
0030	4-Brome- phenyl phenyl-ether	NA	4-Bromophenyl phenyl-ether	101-55-3	0.055-A	
U031	n-Butyl alcohol	NA	n-Butyl alcohol	71-36-3	5.6	
0032	Calcium chromate	Table A	Chromium (Total)	7440-47-32	0.32	NA
0036	Chlordane (alpha and gamma)	NA	Chlordane (alpha-and gamma)	57-74-9	0.00033 B	0.13 A
U037	Chloro- benzene	NA	<u>Chlorobenzene</u>	108-90-7	0.057-В	<u>5.7-</u> A
0038	Chloro- benzilate	Table D	Chloro- benzilate	510-15-6	0.10-B	NA
0039	p-Chloro-m- cresol	NA	p-Chloro-m- cresol	59-50-7	0.018 B	<u> </u>

U043	Vinyl chloride	NA	Vinyl chloride	75-01-4	0.27-В	
U044	Chloroform	NA	Chloroform	67-66-3		
U045	Chlorometh- ane (Methyl chloride)	NA	Chloromethane (Methyl-shl- oride)	74-87-3	0 .19 -B	33 A
U047	2-Chlore- naphthalene	NA	2-Chloro- naphthalene	91-58-7	0.055-B	5.6 A
U048	2-Chloro- phenol	NA	2-Chloro- phenol	95578	0.044 B	5.7 A
0050	Chrysene	NA	Ghrysene	218-01-9	0.059_B	8.2-A
0051	Creosote	Table A	Naphthalene Pentachloro- phenol	91-20-3 87-86-5	0.031 0.18	<u> </u>
			Phenanthrene Pyrene	85-01-8 129-00-0		
			Toluene	108-88-3	0.028	
			Xylenes (Total)		0.032	NA
			Lead	7439-92-1	0.037	NA
0052	Cresols (Cresylic acid)	NA	o-Cresol	95-48-7	0.11 B	<u>5.6</u> A
			Gresols (m- and p-iso- mers)		0,77-B	3.2- A
U057	Cyclohexan- one	Table D	Cyclohexanone	108-94-1	0.36	NA
0060	DDD	NA	o,p'~DDD p,p'~DDD	53-19-0 72-54-8	0.023 B 0.023 B	0.087 A 0.087 A
0061	DDT	NA	o,p'-DDT p,p'-DDT o,p'-DDD p,p'-DDD c,p'-DDE p,p'-DDE	789-02-6 50-29-3 53-19-0 72-54-8 3424-82-6 72-55-9	0.0039-B 0.023-B 0.023-B 0.031-B	0.087 A 0.087 A 0.087 A 0.087 A 0.087 A 0.087 A 0.087 A
0063	Dibenzo(a, h)anthracene	NA	Díbenzo(a,h)- anthracene	53-70-3	0.055-B	8.2-h
0066	1,2-Dibromo- 3-shloro- propane	NA	1,2-Dibromo- 3-chloro- propane	96-12-8	0 .11-B	<u>15A</u>
U067	1,2-Dibromo- ethane (Ethylene dibromide)	NA	1,2-Dibromo- ethane (Ethylene di- bromide)	106-93-4	0.028-B	<u>15A</u>
0068	Dibromoeth- ane	NA	Dibromoethane	74-95-3	0,11 B	15. A

0069	Di-n-butyl phthalate	NA	Di-n-butyl phthalate	84-74-2	0.057 A	28. A
0070	o-Dichloro- benzene	NA	o-Dichloro- benzene	95-50-1	0.088-B	<u>6.2 A</u>
U071	m-Dichloro- benzene	NA	m-Dichloro- benzene	541-73-1	0.036	6.2 A
0072	p-Dichloro- benzene	NA	p-Dichloro- benzene	104~46~7	0.090 В	6.2 A
0075	Dichloro- difluoro- methane	NA	Dichlorodi- fluoromethane	75-71-8	0.23_В	7.2-A
0076	1,1-Di- chloroethane	NA	1,1-Dichloro- ethane	75-34-3	0.059-B	7.2 A
U077	1,2-Di- chloroethane	NA	1,2-Dichloro- ethane	107-06-2	0,21-В	7 ,2 A
U078	l,1-Dichlor- octhylenc	NA	l,l-Dichloro- ethylene	75-35-4	0.025-B	33. A
U079	1,2-Dichlor- octhylene	NA	trans-1,2-Di- chlorocthyl- enc	156-60-5	0.054 B	33. A
080	Methylene ohloride	NA	Methylene chloride	75-08-2	0₊089 В	33. A
0081	2,4-Di- chlorophenol	NA	2,4-Dichloro- phenol	120-83-2	0.044 B	14. A
0082	2,6-Dichlor- ophenol	NA	2,6-Dichloro- phenol	87-65-0	0.044 B	14. A
0083	1,2-Dichlor- opropane	NA	172-Dichloro- propane	78-87-5	0.85 B	18. A
U084	1,3-Dichlor- opropene	NA	cis-1,3-Dich- loropropylene	10061-01-5	0.036 B	18. A
			trans-1,3-Di- chloropropyl- ene	10061-02-6	0.036 B	18. A
0088	Diethyl phthalate	NA	Diethyl phthalate	84-66-2	0.2	28. A
0093	p-Dimethyl- aminoazoben- zene		p-Dimethyl- aminoaso- benzene	60-11-7	0.13 B	NA
U101	2,4-Di- methylphenol	NA	2,4-Dimethyl- phenol	105-67-9	0.036 B	14. A
U102	Dimethyl phthalate	NA	Dimethyl phthalate	131-11-3	0.047	28. A
V105	2,4-Dinitro- toluene	NA	2,4-Dinitro- toluene	121-14-2	0.32 B	140. A

U106	2,6-Dinitro- toluene	NA	2,6-Dinitro- toluene	506-20-2		0.55 B	28. A
U107	Di-n-octyl phthalate	AA	Di-n-octyl phthalate	117-84-0		0.017	28. A
U108	1,4-Dioxane	NA	1,4-Dioxane	123-91-1		0.12 B	170. A
U111	Di-n-propyl- nitroscamine		Di-n-propyl- nitroscamine	621-64-7		0.40 B	14. A
U112	Ethyl acetate	NA	Ethyl-acetate	141-78-6		0.34 B	33. A
U117	Ethyl-ether	NA	Ethyl-ether	60-29-7		0.12 B	160. A
V118	Ethyl meth- acrylate	NA	Ethyl methac- rylate	97-63-2		0.14 B	160. A
U120	Fluoranthene	NA	Fluoranthene	206-44-0		0.068 B	8.2 A
U121	Tríchloro- monofluoro- methane	NA	Trichloro- monofluoro- mothane	75-69-4		0.020 B	33. A
U127	Hexachlorc- benzene	NA	Hexachloro- benzene	118-74-1		0.055 B	37. A
U128	Hexachloro- butadiene	NA	Hexachloro- butadiene	87-68-3		0.055 B	28 A
U129	Lindane	AA	alpha-BHC	319-84-6	₽	0.00014	0.66 A
			beta-BHC	319-85-7	B	0.00014	0.66 A
			Delta-BHG gamma-BHC (Lindane)	319-86-8 58-89-9	5	0.023 В 0.0017 В	0.66 A 0.66 A
U130	Hexachloro- cyclopenta- diene	NA	Hexachloro- cyclopenta- diene	77-47-7		0.057 В	3.6 A
U131	Hexachlorc- ethane	NA	Hexachloro- ethane	67-72-1		0.055 B	28. A
U134	Hydrogen fluoride	Table D	Fluoride	16964-48-8		35.	NA
U136	Cacodylic aoid	Table A	Arsenic	7440-38-2		0.79	NA
U137	Indeno- (1,2,3-c,d)- pyrene	NA	Indeno(1,2,3- c,d)pyrene	193-39-5		0.0055-B	8.2 A
U138	Iodomethane	NA	Iodomethane	74-88-4		0.19-B	65. A
U140	Isobutyl alcohol	NA	Isobutyl alcohol	78-83-1		5.6	170. A
U141	Isosafrole	NA	Isosafrole	120-58-1		0.081	2.6 A

U142	Kepone	NA	Kepone	143-50-8	0.0011	0.13 h
U144	Lead-acetate	Table A	Lead	7439-92-1	0.040	NA
U145	Lead phosphate	Table A	Lead	7439-92-1	0.040	NA
U146	Lead sub- acetate	Table A	Lead	7439-92-1	0.040	NA
U151	Meroury	Tables A & D	Mercury	7439-97-6	0.030	NA
U152	Methacrylo- nitrile	NA	Methacryloni- trile	126-98-7	0.24 B	84. A
U154	Methanol	NA	Methanol	67-56-1	5.6	NA
U155	Metha- pyrilene	NA	<u>Methapyrilene</u>	91-80-5	0.081	1.5 A
U157	3-Methyl- cholanthren e	NA	3-Methylchol- anthrene	56-49-5	0,0055 B	15. A
U158	4,4'-Methyl- encbis(2- ohloro- aniline)	NA	Methylenebis- (2-chloro- aniline)	101-14-4	0.50 B	35. A
U159	Methyl-ethyl ketone	NA	Methyl ethyl ketone	78-93-3	0.28	36. A
0161	Methyl iso- butyl ketone		Methyl iso- butyl ketone	108-10-1	0.14	33. A
U162	Methyl-meth- acrylate	NA	Methyl meth- acrylate	80-62-6	0.14	160. A
U165	Naphthalene	NA	Naphthalene	91-20-3	0.059 B	3.1 -A
U168	2-Naphthyl- amine	Table D	2-Naphthyl- amine	91-59-8	0.52 B	NA
V169	Nitrobensene	NA	Nitrobensene	98-95-3	0.068 B	14. A
U170	4-Nitro- phenol	NA	4-Nitrophenol	100-02-7	0.12 B	29. A
U172	N-Nitrosodi- n-butylamine		N-Nitrosodi- n-butylamine	924-16-3	0.40 B	17, A
U174	N-Nitrosodi- ethylamine	NA	N-Nitrosodi- ethylamine	55-18-5	0.40_B	28. A
U179	N-Nitroso- piperidine	NA	N-Nitroso- piperidine	100~75~4	0.013 B	35. A
V180	N-Nitroso- pyrrolidine	NA	N-Nitroso- pyrrolidine	930~55~2	0.013-B	35. A
U181	5-Nitro-o- toluidine	NA	5-Nitro-o- toluidine	99-55-8	0.32 B	28. A

V183	Pentachloro- benzene	- NA	Pentachloro- benzene	608-93-5	0.055 B	37. A
U185	Pentachloro- nitrobenzene		Pentachloro- nitrobenzene	82-68-8	0.055 B	4 . 8 A
U187	Phenaget in	NA	Phenacetin	62-44-2	0.081	16. A
U188	Phenol	NA	Phenol	108-95-2	0.039	6.2 A
U190	Phthalic anhydride (measured as Phthalic acid)	NA ,	Phthalio anhydride (measured as Phthalic aoid)	85-44-9	0.069	28. A
U192	Pronamide	NA	Pronamide	23950-58-5	0.093	1.5 A
U196	Pyridine	NA	Pyridine	110-86-1	0.014 B	16. A
U203	Safrole	NA	Safrole	94-59-7	0.081	22. A
U204	Selenium dioxide	Table A	Selenium	7782-49-2	1.0	NA
U205	Selenium sulfide	Table A	Selenium	7782-49-2	1.0	NA
U207	1,2,4,5- Tetrachloro- benzene	NA	1,2,4,5- Tetrachloro- benzene	95-94-3	0₊055_B	19. A
u208	1,1,1,2- Tetrachloro- ethane	NA	1,1,1,2- Tetrachloro- ethane	630-20-6	0.057	42. A
U209	1,1,2,2- Tetrachloro- ethane	NA	1,1,2,2- Tetrachloro- ethane	79-34-5	0.057 B	42. A
U210	Tetrachloro- ethylene	• NA	Tetrachloro- ethylene	127-18-4	0.056 B	5.6 A
U211	Carbon tet- rachloride	NA	Carbon-tetra- chloride	56-23-5	0.057 B	5.6 A
U214	Tallium(I) acctate	Table D	Thallium	7440-28-0	0.14 B	NA
U215	Thallium(I) carbonate	Table D	Thallium	7440-28-0	0.14-B	NA
U216	Thallium(I) chloride	Table D	Thallium	7440-28-0	0.14 B	NA
U217	Thallium(I) nitrate	Table D	Thallium	7440-28-0	0.14 B	NA
U220	Tolucne	NA	Tolucne	108-88-3	0.080 B	28. A

U225	Tribromo- methane (Bromoform)	NA	Tribromo- methane (Bromoform)	75-25-2	0.63 B	15. A
U226	1,1,1-Tri- chloroethan e		1,1,1-Tri- chloroethane	71-55-6	0.054 B	5.6 A
U227	1,1,2-Tri- chloroethan e	NA	1,1,2-Tri- chloroethane	79-00-5	0.054 B	5.6 A
U228	Trichloro- ethylene	NA	Trichloro- ethylene	79-01-6	0.054_B	5.6 -A
0235	tris-(2,3- Dibromoprop- yl)- phosphate	NA	tris-(2,3-Di- bromopropyl)- phosphate	126-72-7	0.025	0.10 A
U239	Xylenes	NA	Xylene		0.32 В	28. A
U240	2,4-Dichlor- ophenoxya- ectic-acid	- NA	2,4-Dichloro- phenoxyacetic acid	94-75-7	0.72	10. A
U243	Hexachloro- propene	NA	Hexachloro- propene	1888-71-7	0.035 B	28.
U247	Methexychlor	- NA	Methoxychlor	72-43-5	0.25 B	0.18 A

A Treatment standards for this organic constituent were established based upon incineration in units operated in accordance with the technical requirements of 35 Ill. Adm. Code 724.Subpart Q or 725.Subpart Q, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may certify compliance with these treatment standards according to provisions in Section 728.107.

B Based on analysis of composite samples.

C As analyzed using SW-846 Method 9010 or 9012; sample size: 10g; distillation time: one hour and fifteen minutes.

R-----Reserved.

NA-Not Applicable.

(Source: Amended at 19 Ill. Reg. , effective

Section 728.Table C Technology Codes and Description of Technology-Based Standards

)

Technology

code Description of technology-based standard

- ADGAS Venting of compressed gases into an absorbing or reacting media (i.e., solid or liquid)--venting can be accomplished through physical release utilizing values or piping; physical penetration of the container; and/or penetration through detonation.
- AMLGM Amalgamation of liquid, elemental mercury contaminated with radioactive materials utilizing inorganic reagents such as copper, zinc, nickel, gold, and sulfur that result in a nonliquid, semi-solid amalgam and

thereby reducing potential emissions of elemental mercury vapors to the air.

- BIODG Biodegradation of organics or non-metallic inorganics (i.e., degradable inorganics that contain the elements of phosphorus, nitrogen, and sulfur) in units operated under either aerobic or anaerobic conditions such that a surrogate compound or indicator parameter has been substantially reduced in concentration in the residuals (e.g., *Ftotal Qorganic Gcarbon* (TOC) can often be used as an indicator parameter for the biodegradation of many organic constituents that cannot be directly analyzed in wastewater residues).
- CARBN Carbon adsorption (granulated or powdered) of non-metallic inorganics, organo-metallics, and/or organic constituents, operated suchgo that a surrogate compound or indicator parameter has not undergone breakthrough (e.g., Ftotal Oorganic Gcarbon (TOC) can often be used as an indicator parameter for the adsorption of many organic constituents that cannot be directly analyzed in wastewater residues). Breakthrough occurs when the carbon has become saturated with the constituent (or indicator parameter) and substantial change in adsorption rate associated with that constituent occurs.
- CHOXD Chemical or electrolytic oxidation utilizing the following oxidation reagents (or waste reagents) or combinations or reagents:
 - Hhypochlorite (e.g., bleach);
 - 2) chlorine;
 - chlorine dioxide;
 - 4) ozone or UV (ultraviolet light) assisted ozone;
 - 5) peroxides;
 - 6) persulfates;
 - 7) perchlorates;
 - 8) permangantes; and/or
 - 9) other oxidizing reagents of equivalent efficiency, performed in units operated suchso that a surrogate compound or indicator parameter has been substantially reduced in concentration in the residuals (e.g., <u>#total Oorganic Ocarbon (TOC)</u> can often be used as an indicator parameter for the oxidation of many organic constituents that cannot be directly analyzed in wastewater residues). Chemical oxidation specifically includes what is commonly referred to as alkaline chlorination.
- CHRED Chemical reduction utilizing the following reducing reagents (or waste reagents) or combinations of reagents:
 - 1) <u>Seulfur</u> dioxide;
 - 2) sodium, potassium, or alkali salts of sulfites, bisulfites, metabisulfites, and polyethylene glycols (e.g., NaPEG and KPEG);
 - 3) sodium hydrosulfide;
 - ferrous salts; and/or

- 5) other reducing reagents of equivalent efficiency, performed in units operated such that a surrogate compound or indicator parameter has been substantially reduced in concentration in the residuals (e.g., <u>#t</u>otal <u>Oo</u>rganic <u>Hhalogens (TOX)</u> can often be used as an indicator parameter for the reduction of many halogenated organic constituents that cannot be directly analyzed in wastewater residues). Chemical reduction is commonly used for the reduction of hexavalent chromium to the trivalent state.
- <u>CMBST</u> <u>Combustion in incinerators, boilers, or industrial furnaces operated in</u> <u>accordance with the applicable requirements of 35 Ill. Adm. Code</u> 724.Subpart O or 35 Ill. Adm. Code 726.Subpart H.
- DEACT Deactivation to remove the hazardous characteristics of a waste due to its ignitability, corrosivity, and/or reactivity.
- FSUBS Fuel substitution in units operated in accordance with applicable technical operating requirements.
- HLVIT Vitrification of high level mixed radioactive wastes in units in compliance with all applicable radioactive protection requirements under control of the <u>federal</u> Nuclear Regulatory Commission.
- IMERC Incineration of wastes containing organics and mercury in units operated in accordance with the technical operating requirements of 35 Ill. Adm. Code 724.Subpart 0 or 725.Subpart 0. All wastewater and nonwastewater residues derived from this process must then comply with the corresponding treatment standards per waste code with consideration of any applicable subcategories (e.g., Hhigh or blow Mmercury Ssubcategories).
- INCIN Incineration in units operated in accordance with the technical operating requirements of 35 Ill. Adm. Code 724.Subpart 0 or 725.Subpart 0.
- LLEXT Liquid-liquid extraction (often referred to as solvent extraction) of organics from liquid wastes into an immiscible solvent for which the hazardous constituents have a greater solvent affinity, resulting in an extract high in organics that must undergo either incineration, reuse as a fuel, or other recovery<u>f</u> or reuse and a raffinate (extracted liquid waste) proportionately low in organics that must undergo further treatment as specified in the standard.
- MACRO Macroencapsulation with surface coating materials such as polymeric organics (e.g., resins and plastics) or with a jacket of inert inorganic materials to substantially reduce surface exposure to potential leaching media. Macroencapsulation specifically does not include any material that would be classified as a tank or container according to 35 Ill. Adm. Code 720.110.
- NEUTR Neutralization with the following reagents (or waste reagents) or combinations of reagents:
 - 1) Aacids;
 - 2) bases; or
 - 3) water (including wastewaters) resulting in a pH greater than 2 but less than 12.5 as measured in the aqueous residuals.

NLDBR No land disposal based on recycling.

- <u>blime</u> (i.e., containing oxides and/or hydroxides of calcium and/or magnesium;
- caustic (i.e., sodium and/or potassium hydroxides;
- 3) soda ash (i.e., sodium carbonate);
- 4) sodium sulfide;
- 5) ferric sulfate or ferric chloride;
- 6) alum; or
- 7) sodium sulfate. Additional flocculating, coagulation, or similar reagents<u>f</u> or processes that enhance sludge dewatering characteristics are not precluded from use.

RBERY Thermal recovery of Bberyllium.

- RCGAS Recovery<u>f or</u> reuse of compressed gases including techniques such as reprocessing of the gases for reuse<u>f or</u> resale; filtering<u>f or</u> adsorption of impurities; remixing for direct reuse or resale; and use of the gas as a fuel source.
- RCORR Recovery of acids or bases utilizing one or more of the following recovery technologies:
 - 1) **D**distillation (i.e., thermal concentration);
 - ion exchange;
 - 3) resin or solid adsorption;
 - reverse osmosis; and/or
 - 5) incineration for the recovery of acid--

Note: this does not preclude the use of other physical phase separation or concentration techniques such as decantation, filtration (including ultrafiltration), and centrifugation, when used in conjunction with the above listed recovery technologies.

RLEAD Thermal recovery of lead in secondary lead smelters.

- RMERC Retorting or roasting in a thermal processing unit capable of volatilizing mercury and subsequently condensing the volatilized mercury for recovery. The retorting or roasting unit (or facility) must be subject to one or more of the following:
 - a) A <u>Nn</u>ational <u>Be</u>missions <u>S</u>etandard for <u>Hh</u>azardous <u>Aa</u>ir <u>P</u>pollutants (NESHAP) for mercury (40 CFR 61, Subpart E);
 - b) A Bbest Aavailable Gcontrol Ttechnology (BACT) or a Llowest Aachievable Eemission Rrate (LAER) standard for mercury imposed pursuant to a Pprevention of Esignificant Edeterioration (PSD) permit (including 35 Ill. Adm. Code 201 through 203); or

- c) A state permit that establishes emission limitations (within meaning of Section 302 of the Clean Air Act) for mercury, including a permit issued pursuant to 35 Ill. Adm. Code 201. All wastewater and nonwastewater residues derived from this process must then comply with the corresponding treatment standards per waste code with consideration of any applicable subcategories (e.g., Hhigh or Llow Mmercury Seubcategories).
- RMETL Recovery of metals or inorganics utilizing one or more of the following direct physical <u>for</u> removal technologies:
 - I ion exchange;
 - 2) resin or solid (i.e., zeolites) adsorption;
 - reverse osmosis;
 - 4) chelation<u>/ or solvent extraction;</u>
 - 5) freeze crystallization;
 - 6) ultrafiltration; and/or
 - 7) simple precipitation (i.e., crystallization)

Note: this does not preclude the use of other physical phase separation or concentration techniques such as decantation, filtration (including ultrafiltration), and centrifugation, when used in conjunction with the above listed recovery technologies.

- RORGS Recovery of organics utilizing one or more of the following technologies:
 - 1) Distillation;
 - 2) thin film evaporation;
 - steam stripping;
 - carbon adsorption;
 - 5) critical fluid extraction;
 - liquid-liquid extraction;
 - 7) precipitation/<u>or</u> crystallization (including freeze crystallization); or
 - 8) chemical phase separation techniques (i.e., addition of acids, bases, demulsifiers, or similar chemicals)+.

Note: This does not preclude the use of other physical phase separation techniques such as decantation, filtration (including ultrafiltration), and centrifugation, when used in conjunction with the above listed recovery technologies.

RTHRM Thermal recovery of metals or inorganics from nonwastewaters in units defined as cement kilns, blast furnaces, smelting, melting and refining furnaces, combustion devices used to recover sulfur values from spent sulfuric acid and "other devices" determined by the Agency pursuant to 35 Ill. Adm. Code 720.110, the definition of "industrial furnace".

- STABL Stabilization with the following reagents (or waste reagents) or combinations of reagents:
 - 1) Portland cement; or
 - 2) lime/<u>or</u> pozzolans (e.g., fly ash and cement kiln dust)--this does not preclude the addition of reagents (e.g., iron salts, silicates, and clays) designed to enhance the set/<u>or</u> cure time and/or compressive strength, or to overall reduce the leachability of the metal or inorganic.
- SSTRP Steam stripping of organics from liquid wastes utilizing direct application of steam to the wastes operated such that liquid and vapor flow rates, as well as, temperature and pressure ranges have been optimized, monitored, and maintained. These operating parameters are dependent upon the design parameters of the unit such as, the number of separation stages and the internal column design. Thus, resulting in a condensed extract high in organics that must undergo either incineration, reuse as a fuel, or other recovery<u>f</u> or reuse and an extracted wastewater that must undergo further treatment as specified in the standard.
- WETOX Wet air oxidation performed in units operated such that a surrogate compound or indicator parameter has been substantially reduced in concentration in the residuals (e.g., <u>#t</u>otal <u>Oorganic Gcarbon (TOC)</u> can often be used as an indicator parameter for the oxidation of many organic constituents that cannot be directly analyzed in wastewater residues).
- WTRRX Controlled reaction with water for highly reactive inorganic or organic chemicals with precautionary controls for protection of workers from potential violent reactions as well as precautionary controls for potential emissions of toxic<u>/_or_</u>ignitable levels of gases released during the reaction.
- Note 1: When a combination of these technologies (i.e., a treatment train) is specified as a single treatment standard, the order of application is specified in <u>Section 728.</u>Table DI by indicating the five letter technology code that must be applied first, then the designation "fb." (an abbreviation for "followed by"), then the five letter technology code for the technology that must be applied next, and so on.
- Note 2: When more than one technology (or treatment train) are specified as alternative treatment standards, the five letter technology codes (or the treatment trains) are separated by a semicolon (;) with the last technology preceded by the word "OR". This indicates that any one of these BDAT technologies or treatment trains can be used for compliance with the standard.

(Source: Amended at 19 Ill. Reg. _____, effective _____) Section 728.Table D Technology-Based Standards by RCRA Waste Code BOARD NOTE: For the requirements previously found in this Section, refer to Sections 728.140 and 728.Table T.

Waste Codes	Sec-Also	CAS No.	Technology Coder Waste- waters	Technology Code, Non- waste- waters	Waste Descriptions or Treatment Subcategory
0001	Tables A & B	NA	DEACT, and meet_F039; or_FSUBS; RORGS; or INCIN	DEACT, and meet_F039; or_FSUBS; RORGS; or INCIN	All-descriptions-based on 35 Ill. Adm. Code 721.121, except for the Section 721.121(a)(1) High TOC-subcategory, managed in non-CWA/non- CWA-equivalent/non-Class I SDWA systems
0001	NA	NA	DEACT	DEACT	All descriptions based on 35 Ill, Adm, Code 721.121, except for the Section 261.121(a)(1) High TOC subcategory, managed in CWA, CWA- equivalent, or Class I SDWA-systems
0001	NA	NA	NA	FSUBS / RORGS / Or INCIN	All-descriptions based on 35 Ill. Adm. Code 721.121(a)(1)-High TOG Ignitable Liquids Sub- categoryGreater than or equal to 10% total organic carbon
0002	Tables A & B	NA	DEACT and meet F039	DEACT and meet F039	Acid, alkaline, and other subcategory based on 35 Ill. Adm. Code 721,122 managed in non- GWA/non-GWA-equivalent/ non-Class I SDWA systems
D002	NA	NA	DEACT	DEACT	Acid, alkaline, and other subcategory based on 35 Ill. Adm. Code 721.122 managed in GWA, GWA-equivalent, or Class I SDWA systems
9003	NA	NA	DEACT (but not in- oluding dilution as a sub- stitute for ade- quate treatment)	not in- cluding dilution as a sub- stitute for ade- quate	Reactive-sulfides-based on 35 Ill. Adm. Code 721.123(a)(5)
D003	NA	NA	DEACT	DEACT	Explosives based on 35 Ill. Adm. Code 721.123 {a}{6}, {a}{7}, and {a}{8}

0003	, <u>NA</u>	NA	NA	DEACT	Water reactives based on 35 Ill. Adm. Code 721.123(a)(2), (a)(3), and (a)(4)
D003	- NA	NA	DEACT	DEACT	Other reactives based on 35 Ill. Adm. Code 721.123(a)(1)
9006	NA.	7440-43-9	NA	RTHERM	Cadmium~containing bat- teries
0000	; NA	7439-92-1	NA	RLEAD	Lead-acid batteries (Note: This standard only applies to lead acid batteries that are identified as RCRA hazardous wastes and that are not excluded elsewhere from regulation under the land disposal re- strictions of this Part or exempted under other regulations (see 35 Ill. AdmCode 726.180).)
	Tables_A &-B	7439-97-6	NA	IMERC; or RMERC	Mercury: (High Mercury Subcategory-greater than or equal to 260 mg/kg total Mercury- contains mercury and or- ganics (and are not incinerator residues))
0009	Tables ∧ &-B	7439-97-6	NA	RMERG	Mercury: (High Mercury Subcategory-greater than or equal to 260 mg/kg total Mercury- inorganics (including incinerator residues and residues from RMERC))
D012	Table B	72-20-8	BIODC; or INCIN	NA	Endrin
D013	Table B	58-89-9	CARBN; or INCIN	NA	Lindane
D014	Table B	72-43-5	WETOX; or incin	NA	<u>Methoxychlor</u>
D015	Table B	8001-35-1	BIODG; or INCIN	NA	Toxaphene
D016	Table B	94-75-7	CHOXD; BIODG; or INCIN	NA	2,4-D
D017	Table B	93-72-1	CHOXD) or INCIN	NA	2,4,5-TP

F005	Tables A & B	79-46-9	(WETOX or CHOXD) fb CARBN<i>)</i> or INCIN	INCIN	2-Nitropropane
F005	Tables A & B	110-80-5	BIODC; or INCIN	INCIN	2-Ethoxyethanol
F024	Tables A & B	NA	INCIN	INCIN	
K025	NA	NA	LLEXT fb SSTRIP fb CARBN; or INCIN	INCIN	Distillation bottoms from the production of nitrobenzene by the nitration of benzene
K026	NA	NA	INCIN	incin	Stripping still tails from the production of methyl-ethyl-pyridines
K027	NA	NA	CARBN; or INCIN	FSUBS; or INCIN	Centrifuge and distillation residues from toluene di- isocyanate production
x039	NA	NA	CARBN; or INCIN	FSUBS; or INGIN	Filter cake from the filtration of diethyl- phosphorodithice acid in the production of phor- ate
K044	NA	NA	DEACT	DEACT	Wastewater treatment sludges from the manu- facturing and processing of explosives
K045	NA	NA	DEACT	DEACT	Spent carbon from the treatment of wastewater containing explosives
K047	NA	NA	DEACT	DEACT	Pink/red water from TNT operations
K069	Tables A & B	NA NA	NA	RLEAD	Emission_control_dust/ sludge_from_secondary lead_smelting;Non- Calcium_Sulfate_Sub- category
K106	Tables A & B	NA	NA	RMERC	Wastewater treatment sludge from the mercury cell process in chlorine production;- (High Mercury Subcategory- greater than or equal to

greater than or equal to 260 mg/kg total mercury)

K107	NA	NA	INCIN; or CHOXD fb; CARBN; or BIODC fb CARBN	INCIN.	Column-bottoms from product separation from the production of 1,1- dimethylhydrasine (UDMH) from carboxylic acid hydrasides
K108	NA	NA	INCIN; or CHOXD fb; CARBN; or BIODC fb CARBN	INCIN.	Condensed-column overheads-from-product separation and condensed reactor vent gases from the production of 1,1- dimethylhydrazine (UDMH) from-carboxylic acid hydrazides
x109	NA	NA	INCIN/ or CHOXD fb, CARBN/ or BIODC fb CARBN	INCIN.	Spent filter cartridges from product purification from the production of 1,1- dimethylhydrazine (UDMH) from carboxylic acid hydrazides
K110	NA	NA	INCIN; or CHOXD-fb; CARBN; or BIODC-fb CARBN	INCIN.	Condensed-column overheads-from intermediate-separation from-the-production-of 1,1-dimethylhydrazine (UDMH)-from-carboxylic acid-hydrazides
K112	NA	NA	INCIN; or CHOXD fb; CARBN; or BIODC fb CARBN	INCIN.	Reaction by product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene
K113	NA	NA	CARBN ; or Incin	FSUBS<i>†</i> or INCIN	Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of di- nitrotoluene
K114	NA	NA	CARBN<i>;</i> or Incin	FSUBS†-or INCIN	Vicinals from the purification of tol- uenediamine in the production of toluenedi- amine via hydrogenation of dinitrotoluene
K115	NA	NA	CARBN; or INCIN	FSUBS; or INCIN	Heavy ends from the purification of toluenediamine in the production of tol- uenediamine via hydrogenation of di- nitrotoluene

K116	NA	NA	CARBN; or	FSUBS; or	Organic condensate from
KI I U			INCIN	INCIN	the solvent recovery column in the production of tolucne discovanate via phosgenation of tolucnediamine
K123	₩ħ	NA NA	INCIN; or CHOXD fb (BIODG or CARBN)	INCIN.	Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebis dithiocarbamic acid and its salts
K124	NA	NA	INCIN; or CHOXD fb (BIODC or CARBN)	INCIN.	Reactor-vent-scrubber water-from-the production-of cthylenebisdi- thiccarbamic-acid-and its-salts
K125	NA	NA	INCIN; or CHOXD fb (BIODC or CARBN)	INCIN.	Filtration, evaporation, and centrifugation solids from the production of ethylenebisdi- thiocarbamic acid and its palts
K126	NA	NA.	INCIN; or CHOXD fb (BIODC or CARBN)	INCIN.	Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylene bisdithiocarbamic acid and its salts
P001	NA	81-81-2	(WETOX or CHOXD) fb CARBN; or INCIN	FSUBS; or INCIN	Warfarin (>0.3%)
P002	NA	591-08-2	(WETOX or CHOXD) fb CARBN; or INCIN	INGIN	1-Acetyl-2-thiourea
₽003	NA	107-02-8	NA	FSUBS) or Incin	Acrolein
₽005	NA	107-18-6	(WETOX-or CHOXD) fb CARBN; or INCIN	FSUBS; or Incin	Allyl-alcohol
P006	NA	20859-73-8	CHOXD) CHRED) or INCIN	CHOXD) CHRED) or INCIN	Aluminum phosphide

P007	NA	2763-96-4	(WETOX or CHOXD) fb CARBN<i>1</i> or INCIN	INCIN	5-Aminoethyl 3- isoxazolol
₽008	NA	504-24-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	4-Aminopyridine
9009	NA	131~74-8	CHOXD; Chred; Carbn; BIODC; or INCIN	FSUBS; CH- OXD; CHRED; or INCIN	Ammonium-picrate
P014	NA	108-95-5	(WETOX or Choxd) fb Carbn<i>1</i> or Incin	INCIN	Thiophenol (Benzene thiol)
P015	NA	7440-41-7	RMETL or RTHRM	RMETL/-or RTHRM	Beryllium powder
P016	NA	542~88-1	(WETOX-or Choxd)-fb Carbn/-or Incin	INCIN	Bis(chloromethyl)ether
P017	NA	598-31-2	(WETOX or CHOXD) fb CARBN/ or INCIN	INCIN	Bromoacetone
P018	NA	357-57-3	(WETOX-or CHOXD)-fb CARBN;-or INCIN	INCIN	Brucine
P022	Table B	75-15-0	NA	INCIN	Garbon-disulfide
P023	NA	107~20-0	(WETOX-or Choxd)-fb Carbn/-or Incin	INCIN	Chloroacetaldehyde
P026	NA	5344-82-1	(WETOX or Choxd) fb Carbn<i>1</i> or Incin	INCIN	l-(o-Chlorophenyl)thio- urea
₽027	NA	542-76-7	(WETOX-of CHOXD) fb CARBN7-of INCIN	INCIN	3-Chloropropionitrile
P028	NA	100-44-7	(WETOX or CHOXD) fb CARBN; of INCIN	INCIN	Benzyl-chloride

₽031	NA	460-19-5	CHOXD/ WETOX/ or INGIN	CHOXD/ WETOX/ or INCIN	Cyanogen
₽033	NA	506-77-4	CHOXD; WETOX; or INCIN	CHOXD; WETOX;-or INCIN	Cyanogen chloride
P034	NA	131-89-5	(WETOX or Choxd) fb Carbn; or Incin	INCIN	2-Cyclohexyl-4,6-di- nitrophenol
₽040	NA	297-97-2	CARBN; or Incin	FSUBS; or INCIN	0,0-Diethyl O-pyrazinyl phosphorothioate
P041	NA	311-45-5	CARBN; or Incin	FEUBS; or Incin	Diethyl-p-nitrophenyl phosphate
₽042	NA	51-43-4	(WETOX or CHOXD) fb CARBN; or INGIN	INCIN	Epinophrine
₽043	NA	55-91-4	CARBN; or INCIN	FSUBS; or INCIN	Diisopropylfluorophos- phate (DFP)
P044	NA	60-51-5	CARBN; or Incin	FSUBS; or Incin	Dimethoate
P045	NA	39196-18-4	(WETOX-or Choxd)-fb Carbn;-or Incin	INCIN	Thiofanox
₽046	NA	122-09-8	(WETOX or CHOXD) fb CARBN<i>1</i> or INCIN	INCIN	alpha,alpha-Dimethyl- phenethylamine
₽047	NA	534-52-1	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	4,6-Dinitro-o-cresol salts
₽049	NA	541-53~7	(WETOX-or CHOXD)-fb CARBN;-or INCIN	INCIN	2,4-Dithiobiuret
₽054	NA	151-56-4	(WETOX or CHOXD) fb CAREN; or INCIN	INGIN	Asiridine
P056	Table B	7782-41-4	NA	ADCAS fb Neutr	Fluorine
P057	NA	640-19-7	(WETOX-or ChoxD) fb Carbn1 or Incin	INGIN	Fluoroasetamide

₽058	NA	62~74~8	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Fluoroacetic-acid, sodium-salt
P062	NA	757-58- 4	CARBN; or INCIN	FSUBS or Incin	Hexaethyltetraphosphate
P064	NA	624-83-9	(WETOX of Choxd) fd Carbn; of Incin	INGIN	Isocyanic acid, ethyl ester
P065	Tables-A &-B	628-86-4	NA	RMERC	Mercury fulminate:- (High Mercury Sub- categorygreater than or equal to 260 mg/kg total Mercuryeither incinerator residues or residues-from RMERC}
₽065	Tables-A &-B	628-86-4	NA	IMBRC	Mercury-fulminate: (All nonwastewaters that are not incinerator residues or are not residues from RMERC; regardless of Mercury-Content)
P066	NA	16752-77-5	(WETOX or CHOXD) fb CARBN; or INGIN	INCIN	Methomyl
P067	NA	75-55-8	(WETOX or Choxd) fd Carbn; of Incin	INCIN	2-Methylaziridine
P068	NA	60-34-4	CHOXD; CH- RED; CARBN; BIODC; or INCIN	FSUBS; CH- OXD; CHRED; OR INCIN	Methyl-hydrasine
₽069	NA	75-86-5	(WETOX or CHOXD) fd CARBN; or INCIN	INCIN	Methyllactonitrile
₽070	NA	116-06-3	(WETOX-or CHOXD) fb CARBN; or INCIN	INCIN	Aldicarb
P072	NA.	86-88-4	(WETOX of CHOXD) fb CARBN; of INCIN	INCIN	1-Naphthyl-2-thiourea

P075	NA	54-11-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Nicotine and salts
P076	NA	10102-43-9	ADGA5	ADGAS	Nitric-oxide
P078	NA	10102-44-0	ADGAS	ADCAS	Nitrogen-dioxide
P081	NA	55-63-0	CHOXD; CH- RED; CARBN; BIODC; or INCIN	FSUBS;-CH- OXD; CHRED;-or INCIN	Nitroglycerin
P082	Table-B	62-75-9	NA	INCIN	N-Nitrosodimethylamine
₽084	NA.	4549-40-0	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	N-Nitrosomethylvinyl- amine
P085	NA	152-16-9	CARBN; or Incin	FEUBS; or Incin	Octamethylpyrophosphor- amide
P087	NA	20816-12-0	RMETL/ or RTHEM	rmetl<i>i</i> or rthrm	Osmium tetroxide
P088	NA	145-73-3	(WETOX of Choxd) fb Carbn; of Incin	FSUBS; or INCIN	Endothall
₽092	Tables A & B	62-38-4	NA	RMERG	Phenyl mercury acetate: (High Mercury Sub- category-greater than or equal to 260 mg/kg total Mercury-either incinerator residues or residues from RMERC)
₽092	Tables A & B	62-38-4	NA	IMERC; or RMERC	Phenyl mercury acetate: {All nonwastewaters that are not incinerator residues and are not residues from RMERC: regardless of Mercury Content)
₽093	NA	103-85-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Phenylthiourea
P095	NA	75-44-5	(WETCX or CHOXD) fb CARBN; or INCIN	INGIN	Phosgene
P096	NA	7803-51-2	CHOXD; CH- RED; or INCIN	CHOXD; CH- RED; or INCIN	Phosphine

₽102	NA	107–19–7	(WETOX-or CHOXD)-fb CARBN<i>1</i>-or INCIN	FSUBS; or INCIN	Propargyl-alcohol
₽105	NA	26628-22-8	CHOXD; CH- RED; CARBN BIODC; Of INCIN		Sodium azide
P108	NA	57-24-9-A	(WETOX-or CHOXD) fb CARBN7-or INCIN	INCIN	Strychnine and salts
P109	NA	3689-24-5	CARBN; or INCIN	FSUBS; or INCIN	Tetracthyldithiopyro- phosphate
P112	NA	509-14-8	CHOXD; CH- RED; CARBN; BIODC; Cf INCIN	FSUBS; CH- OXD; CHRED; or INCIN	Tetranitromethane
P113	Table B	1314-32-5	NA	RTHRM; or STABL	Thallic-oxide
P115	Table B	7446-18-6	NA	RTHRM) or STABL	Thallium (I) sulfate
P116	NA	79-19-6	(WETOX-or CHOXD)-fb CARBN;-or INCIN	INCIN	Thiosemicarbaside
P118	NA	75-70-7	(WETOX-or CHOXD)-fb CARBN<i>1-</i>or INCIN	INCIN	Trichloromethanethiol
P119	Table B	7803-55-6	NA	STABL	Ammonium vanadate
P120	Table B	1314-62-1	NA	STABL	Vanadium pentoxide
P122	NA	1314-84-7	CHOXD; CH- RED; or INCIN	CHOXD; CH- RED; or INCIN	Zinc Phosphide (≥10%)
0001	NA	75-07-0	(WETOX-or CHOXD)-fb CARBN;-or INCIN	INCIN	Acetaldehyde
0003	Table B	75-05-8	NA	INCIN	Acctonitrile
0006	NA	75-36-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Acetyl chloride

0007	NA	79-06-1	(WETOX or Choxd) fb Carbn; or Incin	INCIN	Acrylamide
0008	NA	79–10–7	(WETOX or CHOXD) fb CARBN/ or INCIN	feube; or Incin	Acrylic acid
0010	NA	50-07-7	(WETOX-or Choxd)-fb Carbn<i>1</i>-or Incin	INCIN	Mitomysin C
0011	NA	61-82-5	(WETOX-or CHOXD)-fb CARBN/-or INCIN	INCIN	Amitrole
U014	NA	492-80-8	(WETOX-or CHOXD)-fb CARBN;-or INCIN	INCIN	Auramine
U015	NA	115-02-6	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Azaseríne
U016	NA	225-51- 4	(WETOX or CHOXD) fb CARBN<i>;</i> or INCIN	FSUBS; or INCIN	Beng(c)acridine
U017	NA	98-87-3	(WETOX-or CHOXD) fb CARBN<i>1</i> or INGIN	INCIN	Bensal-chloride
0020	NA	98-09-9	(WETOX-or CHOXD)-fb CARBN;-or INCIN	INCIN	Benzenesulfonyl-chloride
U021	NA	92-87-5	(WETOX-or CHOXD)-fb CARBN<i>1-</i>or INCIN	INCIN	Benzidine
0023	AA	98-07-7	CHOXD; CH- RED; CARBN; BIODC; or INGIN	FSUBS; CH- OXD; CHRED; or INCIN	Bensetrichloride
0026	NA	494-03-1	(WETOX-or Choxd)-fb Carbn<i>1</i>-or Incin	INCIN	Chlornaphazin

0033 NA 353-50-4 (WETOX or INCIN Carbonyl fluoride CHOXD) fb GARBN; or INCIN 75-87-6 U034 (WETOX or INCIN **Trichloroacetaldehyde** NA CHOXD) fb (Chloral) CARBN; or INCIN (WETOX or NA 305-03-3 INCIN **Chlorambucil** U035 CHOXD) fb CARBN - or INCIN 510-15-6 INCIN U038 **Chlorobensilate** Table B NA 106-89-8 (WETOX or U041 NA INCIN 1-Chloro-2, 3-epoxy-CHOXD) fb propane (Epichloro-CARBN; or hydrin) INCIN U042 Table B 110 - 75 - 8NA INCIN 2-Chloroethyl vinyl ether U046 NA 107-30-2 (WETOX or INCIN Chloromethyl methyl CHOXD) fb ether CARBN ; or INCIN (WETOX or 3165-93-3 U049 NA INCIN 4-Chloro-o-toluidine CHOXD) fb hydrochloride CARBN; or INCIN 4170-30-3 FSUBS; or U053 ₩A (WETOX or **Crotonaldehyde** CHOXD) fb INCIN CARBN; or INGIN 98-82-8 0055 NA (WETOX or FSUBS; or **Cumene** CHOXD) fb INCIN GARBN; or INCIN 0056 NA 110-82-7 (WETOX or FSUBS; or **Cyclohexane** CHOXD) fb INCIN CARBN - or INCIN 0057 Table B 108-94-1 NA FSUBS; or **Cyclohexanone** INCIN FSUBS; or U058 NA 50-18-0 CARBN; or Cyclophosphamide INCIN INGIN (WETOX or 0059 NA 20830-81-3 INCIN Daunomycin CHOXD) fb CARBN; or

INCIN

0062	NA	2303-16-4	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Diallate
0064	NA	189-55-9	(WETOX of Choxd) fb Carbn<i>1</i> of Incin	FSUB6; or Incin	1,2,7,8-Dibenzopyrene
0073	NA	91-94-1	(WETOX or CHOXD) fb CARBN<i>1</i> or INCIN	INCIN	3,3'-Dichlorobensidine
U074	NA	1476-11-5	(WETOX-or CHOXD)-fb CARBN∤-or INCIN	INCIN	cis-1,4-Dichloro-2-bu- tene; trans-1,4-Di- chloro-2-butene
0085	NA	1464-53-5	(WETOX or CHOXD) fb CARBN1 or INCIN	FSUBS; or INCIN	1,2:3,4-Diepoxybutane
086	NA	1615-80-1	CHOXD; CHRED; CARBN; BIODC; or INCIN	feubs; Choxd; Chred;-of Incin	N,N-Diethylhydrazine
U087	NA	3288-58-2	CARBN; or Incin	FSUB5; or Incin	0,0-Dicthyl S-methyl- dithiophosphate
089	NA	56-53-1	(WETOX or CHOXD) fb CARBN<i>1</i> or INCIN	FSUBS ; or INCIN	Diethyl-stilbestrol
090	NA	94-58-6	(WETOX-or CHOXD)-fb CARBN; or INCIN	FSUBS; or Incin	Dihydrosafrolo
0091	NA	119~90~4	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	3,3'-Dimethoxybenzidine
0092	NA	124~40~3	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Dimethylamine
0093	Table B	621~90~9	NA	INGIN	p-Dimethylaminoaso- benzene
U094	NA	57-97-6	(WETOX or CHOXD) fb CARBN; or INCIN	FSUBS; or INCIN	7,12-Dimethylbenz(a)- anthracenc

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0095	NA	119-93-7	(WETOX or Choxd) fb Carbn; or Incin	INCIN	3,3'-Dimethylbenzidine
0096	NA	80-15-9	CHOXD / CHRED / CARBN / BIODG / OF INCIN	F6UBS} CHOXD} CHRED} or INCIN	alpha,alpha-Dimethyl- benzyl hydroperoxide
0097	NA	79-44-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Dimethylcarbamoyl-ohlor- ide
8098	NA	57-14-7	CHOXD; CH- RED; CARBN; BIODC; of INCIN	FSUBS; CH- OXD; CHRED; or INCIN	1,1-Dimethylhydrazine
0099	NA NA	540~73~8	CHOXD; CH- RED; CARBN; BIODG; or INCIN	FSUBS; CH- OXD; CHRED; or INCIN	1,2-Dimethylhydrazine
V103	NA	77-78-1	CHOXD) CH- RED) CARBN) BIODC) Of INCIN	FSUBS; CH- OXD; CHRED; or INCIN	Dimethyl sulfate
U109	NA	122~66~7	CHOXD; CH- RED; CARBN; BIODC; or INCIN	FSUBS; CH- OXD; CHRED; or INCIN	1,2-Diphenylhydrazine
0110	NA	142~84~7	(WETOX-or CHOXD)-fb CARBN;-or INCIN	INCIN	Dipropylamine
V113	NA	140~88~5	(WETOX-or CHOXD) fb CARBN}-or INCIN	FSUBS; or Incin	Ethyl-acrylate
U114	NA	111-54-6	(WETOX or CHOXD) fb CARBN; or INCIN	INGIN	Ethylencbisdithio- carbami<i>c</i>-acid
V115	NA	75-21-8	(WETOX or CHOXD) fb CARBN; or INGIN	CHOXD; or INCIN	Ethylene oxide

U116	NA	96-45-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Ethylene thiourea
U119	NA	62-50-0	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Bthyl-methanesulfonate
U122	NA	50-00-0	(WETOX-or CHOXD)-fb CARBN;-or INCIN	FSUBS; or Incin	Formaldehyde
U123	WA	64-18-6	(WETOX-or CHOXD}-fb CARBN;-or INCIN	FSUBS; or Incin	Formic acid
U124	NA	110-00-9	(WETOX or CHOXD} fb CARBN} or INCIN	FSUBS; or INCIN	Furan
U125	NA	98-01-1	(WETOX-or CHOXD)-fb CARBN<i>1-</i>or INCIN		Furfural
U126	NA	765-34-4	(WETOX-of CHOXD) fb CARBN1-of INCIN		Glycidaldchydc
U132	NA	70-30-4	(WETOX-or CHOXD}-fb CARBN7-or INGIN	INCIN	Hexachlorophene
U133	NA	302-01-2	CHOXD / CHRED / CARBN / BIODC / OF INCIN	FSUBS} CHOXD} CHRED; or INCIN	Hydrazine
U134	Table-B	7664-39-3	NA	ADCAS fb NEUTR; or NEUTR	Hydrogen-Fluoride
U135	NA	7783-06-4		CHOXD; CH- RED; or INCIN	Hydrogen Sulfide
U143	NA	303-34-4	(WETOX of CHOXD) fb CARBN<i>)</i> of INCIN	INCIN	Lagiogarpine

U147	NA	108-31-6	(WETOX or CHOXD) fb CARBN; or INCIN	FSUBS; or Incin	Maleic anhydride
U148	NA	123-33-1	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Maleic hydrazide
U149	NA	109-77-3	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Malononitrile
U150	NA	148-82-3	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	<u>Melphalan</u>
U151	Tables A & B	7439-97-6	NA	RMERC	Mercury₁ (High Mercury Subcategory-greater than or equal to 26 0 mg/kg total Mercury}
U153	NA	74-93-1	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Methanethiol
U154	NA	67-56-1	(WETOX or CHOXD) fb CARBN; or INCIN	FSUBS; or Incin	Methanol
U156	NA	79-22-1	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Methyl-chlorocarbonate
U160	NA	1338-23-4	CHOXD; CHRED; CARBN; BIODC; or INCIN	fsubs; Choxd; Chred;-or Incin	Methyl ethyl ketone per- oxide
U163	NA	70-25-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	N-Methyl-N'-nitro-N- Nitrosoguanidine
U164	NA	56-04-2	(WETOX or CHOXD} fb CARBN; or INCIN	INCIN	Methylthiouracil
U166	NA	130-15-4	(WETOX or CHOXD) fb CARBN; or INCIN	FSUBS; or Incin	1,4-Naphthoquinone

U167	NA	134-32-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	l-Naphthylamine
V168	Table B	91-59-8	NA	INCIN	2-Naphthylamine
8171	NA	79-46-9	(WETOX or CHOXD) fb CARBN; or INGIN	INGIN	2-Nitropropane
U173	NA	1116-54-7	(WETOX or CHOXD) fb CARBN≯ or INCIN	INCIN	N-Nitroso-diethanolamine
U176	NA	759-73-9	(WETOX or CHOXD) fb CARBN1 or INCIN	INCIN	N-Nitroso-N-ethylurea
U177	NA	684-93-5	(WETOX-or CHOXD)-fb CARBN1-or INCIN	INCIN	N-Nitroso-N-methylurea
U178	NA	615~53~2	(WETOX or CHOXD) fb CARBN<i>1</i> or INGIN	INCIN	N-Nitroso-N-methyl- urethane
U182	NA	123~63~7	(WETOX-or CHOXD)-fb CARBN1-or INCIN	FSUBS; or Incin	Paraldehyde
U184	NA	76-01-7	{WETOX or CHOXD) fb CARBN/ or INCIN	INCIN	Pentachloroethane
U186	NA	504~60~9	(WETOX or CHOXD) fb CARBN; or INCIN	FSUBS; or INCIN	1,3-Pentadiene
U189	NA	1314-80-3	CHOXD; CH- RED; or INCIN	CHOXD; CH- RED; or INCIN	Phosphorus sulfide
U191	NA	109-06-8	{WETOX or CHOXD) fb CARBN; or INCIN	INCIN	2-Picoline
U193	NA	1120-71-4	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	1,3-Propane sultone

U194	NA	107-10-8	(Wetox or Choxd) fb Carbn<i>t</i> or Incin	INCIN	n-Propylamine
U197	NA	106-51-4	(WETOX or Choxd) fb CARBN1 or INCIN	FEUBS; or Incin	p-Benzoquinone
0200	NA	50-55-5	(WETOX or CHOXD} fb CARBN7 or INCIN	INCIN	Reservine
0201	NA	108-46-3	(WETOX or CHOXD} fb CARBN≯ or INCIN	FSUBS1 or INCIN	Resorainol
0202	NA	81-07-2 A	(WETOX-or CHOXD)-fb CARBN<i>1</i>-or INCIN	INCIN	Saccharin and salts
U206	NA	18883-66-4	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Streptozatocin
U213	NA	109-99-9	(WETOX or CHOXD} fb CARBN7 or INCIN	FSUBS; or Incin	Tetrahydrofuran
U214	Table B	563-68-8	NA	RTHRM; or STABL	Thallium (I) acctate
U215	Table-B	6533-73-9	NA	RTHRM; or STABL	Thallium (I) carbonate
U216	Table B	7791-12-0	NA	RTHRM; or STABL	Thallium (I) chloride
U217	Table B	10102-45-1	NA	RTHRM; or STABL	Thallium (I) nitrate
U218	NA	62-55-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Thioacetamide
U219	NA	62-56-6	(WETOX or CHOXD)-fb CARBN; or INCIN	INCIN	Thiourea
U221	NA	25376-45-8	CARBN<i>1</i> or Incin	FSUBS; or Ingin	Tolucnediamine

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0222	NA	636-21-5	(WETOX or CHOXD) fb CARBN/ or INCIN	incin	o-Toluidine hydro- chloride
U223	NA	26471-62-5	CARBN; or Incin	F6UBS; or Incin	Toluene diisocyanate
U234	NA	99-35-4	(Wetox-of Choxd)-fb Carbn/-of Incin	INCIN	øym-Trinitrobenzene
U236	NA	72-57-1	(WETOX-or CHOXD)-fb CARBN}-or INCIN	INCIN	Trypan Blue
U237	NA	66-75-1	(WETOX-or CHOXD)-fb CARBN;-or INCIN	INGIN	Uracil mustard
U238	NA	51-79-6	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Ethyl-carbamate
U240	NA	94-75-7*	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	2,4-Dichlorophenoxy- acetic acid (salts and esters)
U244	NA	137~26~8	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	Thiram
U246	NA	506~68~3	CHOXD<i>†</i> WETOX†-or INCIN	CHOXD+ WETOX+-or INCIN	Cyanogen bromide
U248	NA	81-81-2	(WETOX or CHOXD) fb CARBN; or INCIN	FSUBS} or Incin	Warfarin (0.3% or less)
U249	NA	1314-84-7	CHOXD; CH- RED; or INCIN	CHOXD; CH- RED; or INCIN	Zine-Phosphide (<10%)
U328	NA	95-53-4	INCIN; or CHOXD fb; (BIODG or CARBN); or BIODG fb CARBN	Destructio	o-toluidine

U353	NA	106-49-0	INCIN; or CHOXD fb; (BIODC or CARBN); or BIODC fb CARBN	INCIN;-or Thermal Destructio N.	p-toluidine
U359	NA	110-80-5	INCIN; or CHOXD-fb; (BIODG-or CARBN); or BIODC-fb CARBN	INCIN; or FSUBS;	2-ethoxy-ethanol

A CAS Number given for parent compound only.

B-----This waste code exists in gaseous form and is not categorized as wastewater or nonwastewater forms.

NA Not Applicable.

BOARD NOTE: When a combination of these technologies (i.e., a treatment train) is specified as a single treatment standard, the order of application is specified in this Table by indicating the five letter technology code that must be applied first, then the designation "fb" (an abbreviation for "Followed by"), then the five letter technology code for the technology that must be applied next, and so on. When more than one technology (or treatment train) are specified a alternative treatment standards, the five letter technology codes (or the treatment trains) are separated by a semicolon (;) with the last technologies or treatment trains can be used for compliance with the standard. See Section 728.Table C for a listing of the technology codes and technology based treatment standards. Derived from 40 CFR 268.42, Table 2 (1992), as amended at 57 Fed. Reg. 37273 (Aug. 18, 1992) and 59 Fed. Reg. 31552 (June 20, 1994).

(Source: Amended at 19 Ill. Reg. ____, effective _____

Section 728.Table E Standards for Radioactive Mixed Waste

BOARD NOTE: For the requirements previously found in this Section, refer to Sections 728.140 and 728.Table T.

Technology Code

				51
Waste code	Waste-descriptions and/or-treatment category	CAS No.	Wastewaters	Nonwaste- waters
0002	Radioactive high level wastes generated during the reprocessing of fuel rods subcategory	NA	NA	HLVIT
D004	Radioactive_high-level wastes-generated during-the reprocessing-of_fuel rods_subcategory	NA	NA	HLVIT
0005	Radioactive high level	NA	NA	HLVIT

	wastes-generated during-the reprocessing-of-fuel rods-subcategory			
D006	Radioactive high level wastes-generated during-the reprocessing of fuel rods-subcategory	NA	NA	HFAIL
D007	Radioactive high level wastes generated during the reprocessing of fuel rods subcategory	NA	NA	HLVIT
0008	Radioactive-lead solids-subsategory (Note: these-lead solids-include, but are not-limited to, all forms of lead shielding, and other elemental forms of lead. These-lead solids do not include treatment residuals such as hydroxide sludges, other wastewater treatment residuals, or incinerator ashes that can undergo sonventional possolanic stabilization, nor do they include organolead materials that can be incinerated and stabilized as ash).	7439-92-1	NA	MACRO
8006	Radioactive high level wastes generated during the reprocessing of fuel rods subcategory	NA	NA	HLVIT
000 9	Blemental mercury contaminated with radioactive materials	7439-97-6	NA	AMLCM
0009	Hydraulic-oil contaminated with mercury;-radicactive materials-subcategory	7439-97-6	NA	IMERC
0009	Radioactive high level wastes generated during the reprocessing of fuel	NA	NA	HLVIT

¥e	d	8	9	H	e	a	ŧ	e	g	θ	ť	Ÿ	

D010	Radioastive high level wastes generated during the reprocessing of fuel rods subcategory	NA	NA	HLVIT
D011	Radioactive high level wastes generated during the reprocessing of fuel rods subcategory	NA	NA	HPALL
U151	Meroury: Elemental meroury contaminated with radioactive materials	7439-97-6	NA	AMLCH

Note: NA means Not Applicable.

(Source:	Amended	at	19	111.	Reg	, e	ffective _			_)
Section 7	28.Table	G		Alte	rnative	Treatment	Standards	Based	on HMTMR	

For the treatment standards previously found in this Section and Section 728.146, refer to Sections 728.140 and 728.Table T, "Treatment Standards for Hazardous Wastes".

			CAS No. for	
		Regulated	Regulated	Nonwastewaters
		Hazardous	Hazardous	Concentration
Waste-code	See Also	Constituent	Constituent	(mg/1) TCLP
F006	Tables A & B	Antimony	7440-36-0	2.1
		Arsenic	7440-38-2	0.055
		Barium	7440-39-3	7.6
		Beryllium	7440-41-7	0.014
		Gadmium	7440-43-9	0.19
		Chromium	7440-47-32	0.33
		(total)		
		Gyanide	57-12-5	1.8
		(mg/kg)		
		(total)		
		Lead	7439-92-1	0.37
		Mercury	7439-97-6	0.009
		Nickel	7440-02-0	5.0
		Selenium	7782-49-2	0.16
		Silver	7440-22-4	0.30
		Thallium		0.078
		Zino	7440-66-6	5.3
K062	Tables A & B	Antimony	7440-36-0	2.1
		Arsenic	7440-38-2	0.055
		Barium	7440-39-3	7.6
		Beryllium	7440-41-7	0.014
		Gadmium	7440-43-9	0.19
		Chromium	7440-47-32	0,33
		(total)		
		Lead	7439-92-1	0.37
		Mercury	7439-97-6	0.009
		Nickel	7440-02-0	5.0

Selenium	7782-49-2	0.16
Silver	7440-22-4	0.30
Thallium		0.078
Zinc	7440-66-6	5-3

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 728. Table T Treatment Standards for Hazardous Wastes

Note: The treatment standards that heretofore appeared in tables in Sections 728.141, 728.142, and 728.143 have been consolidated into this table.

Waste Code

Waste Description and Treatment or Regulatory Subcategory¹

Regulated Hazardous C	Constituent	Wastewaters	Nonwastewaters
<u>Common Name</u>	<u>CAS² Number</u>	<u>Concentration</u> mg/l ³ ; or <u>Technology</u> <u>Code⁴</u>	<u>Concentration</u> <u>in mg/kg³ un-</u> <u>less noted as</u> <u>"mg/l TCLP";</u> <u>or Technology</u> <u>Code⁴</u>

<u>D001</u>

Ignitable Characteristic Wastes, except for the Section 721.121(a)(1) High TOC Subcategory, that are managed in non-CWA or non-CWA-equivalent or non-Class I SDWA systems.

NA	<u>NA</u>	<u>DEACT and meet</u> <u>Section</u> <u>728.148</u> <u>standards; or</u> <u>RORGS; or</u> CMBST	DEACT and meet Section 728.148 standards; or RORGS; or CMBST
		CMBST	CMBST

<u>D001</u>

Barium

DUOI			
Ignitable Characteristic Wast	es, except for the	ne Section 721.12	l(a)(1) High TOC
Subcategory, that are managed	l in CWA or CWA-ed	quivalent or Class	s I SDWA systems
NA	NA	DEACT	DEACT
			<u>and a subscription of the subscription of the</u>
D001			
High TOC Ignitable Character	stic Liquids Sub	category based on	35 Ill. Adm.
Code 721.121(a)(1) - Greater			
(Note: This subcategory cons			
NA	NA	NA	RORGS; or
	1111	<u></u>	CMBST
			011001
D002			
Corrosive Characteristic Wast	og that are mana	and in non-CWA or	non-CWA
		Led IN HOH-CWA OI	ПОП-СИА
equivalent or non-Class I SDV		553 am	573 CT
<u>NA</u>	NA	DEACT	DEACT
		and meet	and meet
		Section	Section
		<u>728.148</u>	<u>728.148</u>
		<u>standards</u>	<u>standards</u>
D002, D004, D005, D006, D007,	D008, D009, D010	<u>0, D011</u>	
Radioactive high level wastes	generated during	the reprocessing	g of fuel rods.
(Note: This subcategory cons			
Corrosivity (pH)	NA	NA	HLVIT
Arsenic	7440-38-2	NA	HLVIT

7440-39-3

NA

HLVIT

<u>Cadmium</u> <u>Chromium (Total)</u> <u>Lead</u> <u>Mercury</u> <u>Selenium</u> <u>Silver</u>	7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	NA NA NA NA NA	HLVIT HLVIT HLVIT HLVIT HLVIT
<u>D003</u> <u>Reactive Sulfides Subcategory</u> <u>NA</u>	y based on 35 Ill. <u>NA</u>	. Adm. Code 721.13 DEACT	<u>23(a)(5).</u> <u>DEACT</u>
D003 Explosive subcategory based of	on 35 Ill. Adm. Co	ode 721.123(a)(6)	, (a)(7), and
<u>(a)(8).</u> <u>NA</u>	<u>NA</u>	DEACT	DEACT
<u>DOD3</u> Other Reactives Subcategory b			
<u>NA</u>	NA	DEACT	DEACT
DO03 Water Reactive Subcategory ba and (a)(4). (Note: This subcategory cons			<u>a)(2), (a)(3),</u>
NA	NA	NA	DEACT
D003 Reactive Cyanides Subcategory Cyanides (Total) ⁷	<u>y based on 35 Ill</u> 57-12-5	. Adm. Code 721.1	<u>23(a)(5).</u> <u>590</u>
Cyanides (Amenable) ⁷	57-12-5	0.86	30
D004 Wastes that exhibit, or are end toxicity for arsenic based or 1310. Arsenic Arsenic; alternate ⁶ standard for nonwastewaters only.			
D005 Wastes that exhibit, or are e toxicity for barium based on			
<u>1310.</u> <u>Barium</u>	7440-39-3	<u>100</u>	100 mg/l TCLP
D006 Wastes that exhibit, or are e toxicity for cadmium based or			
<u>1310.</u> Cadmium	7440-43-9	1.0	1.0 mg/l TCLP
<u>D006</u> <u>Cadmium Containing Batteries</u> (Note: This subcategory cons <u>Cadmium</u>		waters only.) <u>NA</u>	RTHRM
<u>D007</u> Wastes that exhibit, or are a toxicity for chromium based o			
<u>1310.</u> Chromium (Total)	7440-47-3	5.0	5.0 mg/l TCLP

D008 Wastes that exhibit, or are toxicity for lead based on t 1310.			
Lead Lead; alternate ⁶ standard for nonwastewaters only	<u>7439-92-1</u> 7439-92-1	<u>5.0</u> <u>NA</u>	5.0 mg/l EP 5.0 mg/l TCLP
D008 Lead Acid Batteries Subcateg (Note: This standard only a as RCRA hazardous wastes and under the land disposal rest regulations (see 35 Ill. Adm (Note: This subcategory con Lead	pplies to lead that are not e rictions of thi . Code 726.180}	xcluded elsewho s Part or exemp .).	ere from regulation oted under other
D008 Radioactive Lead Solids Subc (Note: These lead solids in shielding and other elementa treatment residuals such as residuals, or incinerator as stabilization, nor do they i incinerated and stabilized a (Note: This subcategory con Lead	clude, but are 1 forms of lead hydroxide sludg hes that can un nclude organo-1 s_ash.)	. These lead es, other wast dergo conventi ead materials	<u>solids do not include</u> <u>ewater treatment</u> onal pozzolanic that can be
<u>0009</u>			
Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain greater th contain organics and are not (High Mercury-Organic Subcat Mercury	n the extractio an or equal to incinerator re	n procedure (E 260 mg/kg tota	P) in SW-846 Method
toxicity for mercury based o 1310; and contain greater th contain organics and are not (High Mercury-Organic Subcat Mercury D009	n the extractio an or equal to incinerator re egory) 7439-97-6	<u>n procedure (E 260 mg/kg tota sidues.</u> <u>NA</u>	P) in SW-846 Method 1 mercury that also <u>IMERC; or</u> <u>RMERC</u>
toxicity for mercury based o 1310; and contain greater th contain organics and are not (High Mercury-Organic Subcat Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain greater th inorganic, including inciner	n the extractio an or equal to incinerator re egory) 7439-97-6 or are expecte n the extractio an or equal to ator residues a	n procedure (E 260 mg/kg tota sidues. <u>NA</u> d to exhibit, n procedure (E 260 mg/kg tota	P) in SW-846 Method 1 mercury that also <u>IMERC; or</u> <u>RMERC</u> the characteristic of P) in SW-846 Method 1 mercury that are
toxicity for mercury based o 1310; and contain greater th contain organics and are not (High Mercury-Organic Subcat Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain greater th	n the extractio an or equal to incinerator re egory) 7439-97-6 or are expecte n the extractio an or equal to ator residues a	n procedure (E 260 mg/kg tota sidues. <u>NA</u> d to exhibit, n procedure (E 260 mg/kg tota	P) in SW-846 Method 1 mercury that also <u>IMERC; or</u> <u>RMERC</u> the characteristic of P) in SW-846 Method 1 mercury that are
toxicity for mercury based o 1310; and contain greater th contain organics and are not (High Mercury-Organic Subcat Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain greater th inorganic, including inciner (High Mercury-Inorganic Subc	n the extractio an or equal to incinerator re eqory) 7439-97-6 or are expecte n the extractio an or equal to ator residues a ategory) 7439-97-6 or are expecte n the extractio	n procedure (E 260 mg/kg tota sidues. <u>NA</u> d to exhibit, n procedure (E 260 mg/kg tota nd residues fr <u>NA</u> d to exhibit, n procedure (E	P) in SW-846 Method 1 mercury that also <u>IMERC; or</u> <u>RMERC</u> the characteristic of P) in SW-846 Method 1 mercury that are om RMERC. <u>RMERC</u> the characteristic of
toxicity for mercury based o 1310; and contain greater th contain organics and are not (High Mercury-Organic Subcat Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain greater th inorganic, including inciner (High Mercury-Inorganic Subc Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o	n the extractio an or equal to incinerator re eqory) 7439-97-6 or are expecte n the extractio an or equal to ator residues a ategory) 7439-97-6 or are expecte n the extractio	n procedure (E 260 mg/kg tota sidues. <u>NA</u> d to exhibit, n procedure (E 260 mg/kg tota nd residues fr <u>NA</u> d to exhibit, n procedure (E	P) in SW-846 Method 1 mercury that also <u>IMERC; or</u> <u>RMERC</u> the characteristic of P) in SW-846 Method 1 mercury that are om RMERC. <u>RMERC</u> the characteristic of
toxicity for mercury based o 1310; and contain greater th contain organics and are not (High Mercury-Organic Subcat Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain greater th inorganic, including inciner (High Mercury-Inorganic Subc Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain less than (Low Mercury Subcategory) Mercury All D009 wastewaters. Mercury	n the extractio an or equal to incinerator re eqory) 7439-97-6 or are expecte n the extractio an or equal to ator residues a ategory) 7439-97-6 or are expecte n the extractio 260 mg/kg total	n procedure (E 260 mg/kg tota sidues. <u>NA</u> d to exhibit, n procedure (E 260 mg/kg tota nd residues fr <u>NA</u> d to exhibit, n procedure (E mercury.	P) in SW-846 Method 1 mercury that also <u>IMERC; or</u> <u>RMERC</u> the characteristic of P) in SW-846 Method 1 mercury that are om RMERC. <u>RMERC</u> the characteristic of P) in SW-846 Method
toxicity for mercury based o 1310; and contain greater th contain organics and are not (High Mercury-Organic Subcat Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain greater th inorganic, including inciner (High Mercury-Inorganic Subc Mercury D009 Nonwastewaters that exhibit, toxicity for mercury based o 1310; and contain less than (Low Mercury Subcategory) Mercury All D009 wastewaters.	n the extractio an or equal to incinerator re eqory) 7439-97-6 or are expecte n the extractio an or equal to ator residues a ategory) 7439-97-6 or are expecte n the extractio 260 mg/kg total 7439-97-6 ed with radioac	n procedure (E 260 mg/kg tota sidues. <u>NA</u> d to exhibit, n procedure (E 260 mg/kg tota nd residues fr <u>NA</u> d to exhibit, n procedure (E mercury. <u>NA</u> <u>0.20</u> tive materials	P) in SW-846 Method 1 mercury that also IMERC; or RMERC the characteristic of P) in SW-846 Method 1 mercury that are om RMERC. RMERC the characteristic of P) in SW-846 Method 0.20 mg/1 TCLP NA

D009

	ith Nowayay Dad	ionativo Notoriala	Cubactorowy
Hydraulic oil contaminated w (Note: This subcategory con			Subcategory.
Mercury	7439-97-6	NA	IMERC
<u>D010</u> Wastes that exhibit, or are toxicity for selenium based			
1310.	OII CHE EXCLUCI	on procedure (Er)	III DH-040 Method
Selenium	7782-49-2	1.0	5.7 mg/l TCLP
<u>D011</u> Wastes that exhibit, or are			
toxicity for silver based on	the extraction	procedure (EP) in	n SW-846 Method
<u>1310.</u> Silver	7440-22-4	5.0	5.0 mg/l TCLP
<u>D012</u>			
Wastes that are TC for Endri	<u>n based on the</u> 72-20-8		
Endrin	12-20-8	<u>BIODG; or</u> INCIN	0.13 and meet
			Section
			728.148
••••••••••••••••	7401 00 A	DT002	<u>standards</u>
<u>Endrin aldehyde</u>	7421-93-4	<u>BIODG; or</u> INCIN	0.13 and meet
		INCIN	Section
			728.148
			standards
5013			
D013 Wastes that are TC for Linda	ne based on the	TCLP in SW-846 M	thod 1311
alpha-BHC	319-84-6	CARBN; or	0.066
		INCIN	and meet
			<u>Section</u>
			728.148
beta-BHC	319-85-7	CARBN: or	728.148 standards
<u>beta-BHC</u>	<u>319-85-7</u>	<u>CARBN; or</u> INCIN	728.148
<u>beta-BHC</u>	<u>319-85-7</u>		728.148 standards 0.066 and meet Section
<u>beta-BHC</u>	<u>319-85-7</u>		728.148 standards 0.066 and meet Section 728.148
		INCIN	728.148 standards 0.066 and meet Section 728.148 standards
<u>beta-BHC</u> <u>delta-BHC</u>	<u>319-85-7</u> <u>319-86-8</u>	INCIN CARBN; or	728.148 standards 0.066 and meet Section 728.148 standards 0.066
		INCIN	728.148 standards 0.066 and meet Section 728.148 standards
		INCIN CARBN; or	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148
<u>delta-BHC</u>	<u>319-86-8</u>	<u>INCIN</u> CARBN; or INCIN	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards
		INCIN CARBN; or INCIN CARBN; or	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066
<u>delta-BHC</u>	<u>319-86-8</u>	<u>INCIN</u> CARBN; or INCIN	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet
<u>delta-BHC</u>	<u>319-86-8</u>	INCIN CARBN; or INCIN CARBN; or	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148
<u>delta-BHC</u>	<u>319-86-8</u>	INCIN CARBN; or INCIN CARBN; or	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section
<u>delta-BHC</u> gamma-BHC (Lindane)	<u>319-86-8</u>	INCIN CARBN; or INCIN CARBN; or	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148
<u>delta-BHC</u> gamma-BHC (Lindane) D014	<u>319-86-8</u> <u>58-89-9</u>	INCIN CARBN: or INCIN CARBN: or INCIN	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards Standards
<u>delta-BHC</u> gamma-BHC (Lindane)	<u>319-86-8</u> <u>58-89-9</u>	INCIN CARBN: or INCIN CARBN: or INCIN	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards Standards Section 728.148 standards
<u>delta-BHC</u> <u>gamma-BHC (Lindane)</u> <u>D014</u> <u>Wastes that are TC for Metho</u>	<u>319-86-8</u> <u>58-89-9</u> oxychlor based o	INCIN <u>CARBN: or</u> <u>INCIN</u> <u>CARBN: or</u> <u>INCIN</u> n the TCLP in SW-1	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards
<u>delta-BHC</u> <u>gamma-BHC (Lindane)</u> <u>D014</u> <u>Wastes that are TC for Metho</u>	<u>319-86-8</u> <u>58-89-9</u> oxychlor based o	INCIN <u>CARBN: or</u> <u>INCIN</u> <u>CARBN: or</u> <u>INCIN</u> n the TCLP in SW-1	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards
<u>delta-BHC</u> <u>gamma-BHC (Lindane)</u> <u>D014</u> <u>Wastes that are TC for Metho</u>	<u>319-86-8</u> <u>58-89-9</u> oxychlor based o	INCIN <u>CARBN: or</u> <u>INCIN</u> <u>CARBN: or</u> <u>INCIN</u> n the TCLP in SW-1	728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards 0.066 and meet Section 728.148 standards

D015 Wastes that are TC for Toxaph	ene based on the	TCLP in SW-846 Me	thod 1311.
<u>Toxaphene</u>	<u>8001-35-2</u>	BIODG or INCIN	2.6 and meet Section 728.148 standards
D016 Wastes that are TC for 2,4-D TCLP in SW-846 Method 1311.	(2,4-Dichloropher	oxyacetic acid) b	eased on the
2,4-D (2,4-Dichloro- phenoxyacetic acid)	<u>94-75-7</u>	<u>CHOXD, BIODG,</u> or INCIN	<u>10</u> <u>and meet</u> <u>Section</u> <u>728.148</u> <u>standards</u>
D017 Wastes that are TC for 2,4,5- 1311.	TP (Silvex) based	l on the TCLP in S	W-846 Method
2,4,5-TP (Silvex)	<u>93-72-1</u>	<u>CHOXD or INCIN</u>	7.9 and meet Section 728.148 standards
D018 Wastes that are TC for Benzer	he based on the TC	I.P in SW-846 Meth	od 1311 and
that are managed in non-CWA conly.			
Benzene	<u>71-43-2</u>	0.14 and meet Section 728.148 standards	<u>10</u> <u>and meet</u> <u>Section</u> <u>728.148</u> <u>standards</u>
D019 Wastes that are TC for Carbor 1311 and that are managed in			
<u>systems only.</u> <u>Carbon tetrachloride</u>	<u>56-23-5</u>	<u>0.057</u> <u>and meet</u> <u>Section</u> <u>728.148</u> <u>standards</u>	<u>6.0</u> <u>and meet</u> <u>Section</u> <u>728.148</u> <u>standards</u>
D020 Wastes that are TC for Chloro that are managed in non-CWA o only.			
<u>Chlordane (alpha and</u> gamma isomers)	<u>57-74-9</u>	0.0033 and meet Section 728.148 standards	<u>0.26</u> <u>and meet</u> <u>Section</u> <u>728.148</u> <u>standards</u>
D021 Wastes that are TC for Chlord and that are managed in non-C			
avatema only.			

systems only.

<u>Chlorobenzene</u>	<u>108-90-7</u>	0.057	6.0
		and meet	and meet
		Section	Section
		728.148	728.148
		standards	standards

<u>D022</u>

Wastes that are TC for Chloroform based on the TCLP in SW-846 Method 1311 and
that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems
only.
Chloroform67-66-30.0466.0

0.046	6.0
and meet	and meet
<u>Section</u>	Section
728.148	728.148
<u>standards</u>	<u>standards</u>
	and meet Section 728.148

<u>D023</u>

Wastes that are TC for o-Cresol based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

0-CLEBOT	<u> </u>	<u>V.11</u>	5.0
		and meet	and meet
		Section	Section
		728.148	728.148
		standards	standards

<u>D024</u>

Wastes that are TC for m-Cresol based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

<u>niy.</u>			
m-Cresol	<u>108-39-4</u>	0.77	5.6
(difficult to		and meet	and meet
distinguish from p-		Section	Section
cresol)		728.148	728.148
		standards	standards

D025

Wastes that are TC for p-Cresol based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only. p-Cresol 106-44-5 0.77 5.6 (difficult to and meet and meet distinguish from m-Section Section cresol) 728.148 728.148 standards standards

<u>D026</u>

Wastes that are TC for Cresols (Total) based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA

systems only.			
Cresol-mixed isomers	<u>1319-77-3</u>	<u>0.88</u>	11.2
(Cresylic acid)		and meet	and meet
(sum of o-, m-, and p-		Section	Section
cresol concentrations)		728.148	728,148
		standards	standards

<u>D027</u>

Wastes that are TC for p-Dichlorobenzene based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

p-Dichlorobenzene (1,4-	106-46-7	0.090	<u>6.0</u>
Dichlorobenzene)		and meet	and meet
		Section	Section
		728.148	728.148
		standards	standards

<u>D028</u>

Wastes that are TC for 1,2-Dichloroethane based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

1,2-Dichloroethane	<u>107-06-2</u>	0.21	6.0
		and meet	and meet
		Section	<u>Section</u>
		728.148	728.148
		standards	standards

D029

Wastes that are TC for 1,1-Dichloroethylene based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

1,1-Dichloroethylene	75-35-4	0.025	6.0
		and meet	and meet
		Section	Section
		728.148	728.148
		standards	standards

<u>D030</u>

Wastes that are TC for 2,4-Dinitrotoluene based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

SYBCEMB UNIY.			
2,4-Dinitrotoluene	<u>121-14-2</u>	0.32	<u>140</u>
		and meet	and meet
		Section	<u>Section</u>
		728.148	728.148
		<u>standards</u>	standards

<u>D031</u>

Wastes that are TC for Heptachlor based on the TCLP in SW-846 Method 1311 and
that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems
only.
Heptachlor76-44-80.00120.066

<u>Heptachlor epoxide</u>	<u>1024-57-3</u>	0.016 and meet Section 728.148 standards	and meet Section 728.148 standards 0.066 and meet Section 728.148 standards

<u>D032</u>

Wastes that are TC for Hexachlorobenzene based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

<u>Hexachlorobenzene</u>	<u>118-74-1</u>	0.055 and meet Section 728.148 standards	<u>10</u> <u>and meet</u> <u>Section</u> <u>728.148</u> <u>standards</u>
		Scandal us	Scandarda

<u>D033</u>

Wastes that are TC for Hexachlorobutadiene based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

<u>67-68-3</u>	0.055	5.6
	and meet	and meet
	Section	Section
	<u>728.148</u>	728.148
	standards	standards
	<u>67-68-3</u>	and meet Section 728.148

<u>D034</u>

Wastes that are TC for He	xachloroethane	based on the TCLP	<u>in SW-846 Method</u>
1311 and that are managed	in non-CWA or	non-CWA equivalent	or non-Class I SDWA
systems only.			
Hexachloroethane	<u>67-72-1</u>	0.055	<u>30</u>
		and meet	and meet
		Section	Section
		728.148	728.148
		standards	standards

<u>D035</u>

Wastes that are TC for Methyl ethyl ketone based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

Methyl ethyl ketone	<u>78-93-3</u>	<u>0.28</u> <u>and meet</u> <u>Section</u> <u>728.148</u> standards	<u>36</u> <u>and meet</u> <u>Section</u> 728.148 standards
		standards	standards

D036

Wastes that are TC for Nitrobenzene based on the TCLP in SW-846 Method 1311and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWAsystems only.Nitrobenzene98-95-30.06814

	منتجا التعييرة فالمهر الأفاسي والمسجرية التصبيرا للفا	All and a second s	A A A A A A A A A A A A A A A A A A A
		and meet	and meet
		Section	Section
		728.148	728.148
		standards	standards

<u>D037</u>

Wastes that are TC for Pentachlorophenol based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems only.

Pentachlorophenol	87-86-5	0.089 and meet	7.4 and meet
		<u>Section</u> 728,148	Section 728.148
		standards	standards

<u>D038</u>

Wastes that are TC for Pyridine based on the TCLP in SW-846 Method 1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA systems Only.

Pyridine	110-86-1	0.014	16
		and meet	<u>and meet</u>
		<u>Section</u>	Section
		728.148	728,148
		standards	standards

<u>D039</u>

Wastes that are TC for Tetrachloroethylene based on the TCLP in SW-846 Method

1311 and that are managed in	n non-CWA or non-	-CWA equivalent or	<u>non-Class I SDWA</u>
<u>systems only.</u> <u>Tetrachloroethylene</u>	<u>127-18-4</u>	0.056 and meet Section 728.148 standards	<u>6.0</u> and meet Section 728.148 standards
D040 Wastes that are TC for Tric 1311 and that are managed in			
<u>systems only.</u> <u>Trichloroethylene</u>	<u>79-01-6</u>	0.054 and meet Section 728.148 standards	<u>6.0</u> and meet Section 728.148 standards
D041 Wastes that are TC for 2,4, Method 1311 and that are man			
<u>I SDWA systems only.</u> 2,4,5-Trichlorophenol	<u>95-95-4</u>	<u>0.18</u> <u>and meet</u> <u>Section</u> <u>728.148</u> <u>standards</u>	7.4 and meet Section 728.148 standards
D042 Wastes that are TC for 2,4, Method 1311 and that are ma I SDWA systems only.			
2,4,6-Trichlorophenol	<u>88-06-2</u>	0.035 and_meet Section 728.148 standards	7.4 and meet Section 728.148 standards
<u>D043</u> Wastes that are TC for Viny and that are managed in non			
<u>systems only.</u> <u>Vinyl chloride</u>	<u>75-01-4</u>	0.27 and meet Section 728.148 standards	<u>6.0</u> and meet Section 728.148 standards
F001, F002, F003, F004 & F0 F001, F002, F003, F004, or one or more of the following alcohol, carbon disulfide, chlorobenzene, o-cresol, m- 2-ethoxyethanol, ethyl acet methanol, methylene chloridg nitrobenzene, 2-nitropropand trichloroethane, 1,1,2-tric ethane, trichloroethylene, specifically noted in other listings in 35 Ill. Adm. Com	F005 solvent was g spent solvents carbon tetrachlo cresol, p-cresol ate, ethyl benze e, methyl ethyl e, pyridine, tet hloroethane, 1,1 trichloromonoflu subcategories).	: acetone, benzer ride, chlorinated , cyclohexanone, c ne, ethyl ether, s ketone, methyl iso rachloroethylene, ,2-trichloro- 1,2 oromethane, or xy	ne, n-butyl fluorocarbons, o-dichlorobenzene, isobutyl alcohol, obutyl ketone, toluene, 1,1,1- ,2-trifluoro- lenes (except as
Acetone	$\frac{67-64-1}{71-43-2}$	<u>0.28</u> 0.14	<u>160</u>

1311 and that are managed in non-CWA or non-CWA equivalent or non-Class I SDWA

F001, F002, F003, F004 & F005 F005 solvent waste containing	<u>F001, F002, F003, F004 & F005</u> <u>F005 solvent waste containing</u> <u>F005 solvent.</u> <u>2-Nitropropane</u>	F001, F002, F003, F004 & F005 F003 and F005 solvent wastes that the following three solvents as carbon disulfide, cyclohexanone, Carbon disulfide Cyclohexanone Methanol	<u>methane</u> <u>Xylenes-mixed isomers</u> (<u>sum of o-, m-, and p-</u> <u>xylene concentrations</u>)	<u>trifluoroethane</u> <u>Trichloroethylene</u> <u>Trichloromonofluoro-</u>	<u>roluene</u> 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-	<u>Nitrobenzene</u> <u>Pyridine</u> Tetrachloroethylene	Ethyl ether Isobutyl alcohol Methanol Methylene chloride Methyl ethyl ketone Methyl isobutyl ketone	<u>(sum of o-, m-, and p- cresol concentrations)</u> <u>Cyclohexanone</u> <u>o-Dichlorobenzene</u> <u>Ethyl acetate</u> Ethyl benzene	<u>distinquish from m-</u> <u>cresol)</u> <u>Cresol-mixed isomers</u> (Cresylic acid)	<u>[difficult to</u> <u>cresol</u>] <u>p-Cresol</u> [difficult to	<u>n-Butyl alcohol</u> <u>Carbon disulfide</u> <u>Carbon tetrachloride</u> <u>Chlorobenzene</u> <u>o-Cresol</u> <u>m-Cresol</u>
<u>005</u> ing 2-Ethoxyethanol	<u>r605</u> <u>ning</u> 2-Nitropropane 79-46-9	<u>t contain</u> <u>the only</u> <u>or metha</u> <u>-15-0</u> <u>8-94-1</u> <u>-56-1</u>	1330-20-7	<u>79-01-6</u> 75-69-4	7 <u>1-55-6</u> 7 <u>9-00-5</u> 7 <u>6-13-1</u>	<u>98-95-3</u> <u>110-86-1</u> <u>127-18-4</u> 108-88-3	<u>60-29-7</u> <u>78-83-1</u> <u>67-56-1</u> <u>75-9-2</u> <u>78-93-3</u> <u>108-10-1</u>	$\frac{108-94-1}{95-50-1}$ $\frac{141-78-6}{100-41-4}$	1319-77-3	<u>106-44-5</u>	71 - 36 - 3 $75 - 15 - 0$ $56 - 23 - 5$ $108 - 90 - 7$ $95 - 48 - 7$ $108 - 39 - 4$
nol as the only listed	as the only (WETOX or CHOXD) fb CARBN; or INCIN	any combination of one listed FOO1 through FOO5 nol. (Formerly Section <u>3.8</u> 0.36 5.6 0	0.32	0.054 0.020	0.054 0.054 0.057	0.056 0.056 0.080	$ \underbrace{\begin{array}{r} 0.12 \\ 5.6 \\ \underline{5.6} \\ 0.28 \\ 0.28 \\ 0.14 \\ 0.14 \\ \end{array}} $	$\begin{array}{r} 0.36\\ 0.088\\ 0.34\\ 0.057 \end{array}$	<u>0.88</u>	0.77	$\frac{5.6}{3.8} \\ 0.057 \\ 0.11 \\ 0.77 \\$
listed F001 through	<u>listed F001 through</u> <u>INCIN</u>	<u>f one or more of</u> <u>h F005 solvents:</u> <u>ction 728.141(c))</u> <u>4.8 mg/l TCLP</u> <u>0.75 mg/l TCLP</u> <u>0.75 mg/l TCLP</u>	<u>30</u>	<u>6.0</u> <u>30</u>	<u>6.0</u> 30	10 16 16	160 170 30 14	<u>NA</u> <u>33</u> <u>10</u>	11.2	5.6	<u>9.6</u> <u>9.6</u> <u>9.6</u> <u>9.6</u>

F005 solvent. F005 solvent. through

<u>2-Ethoxyethanol</u>	<u>110-80-5</u>	BIODG; or	INCIN
		INCIN	

F006 Wastewater treatment sludges following processes: (1) Su on carbon steel; (3) zinc pl aluminum or zinc-aluminum pl	lfuric acid anoo ating (segregate ating on carbon	lizing of aluminum ed basis) on carbo steel; (5) clean	m; (2) tin plating on steel; (4) ing or stripping
associated with tin, zinc, a		ing on carbon st	eel; and (6)
<u>chemical etching and milling</u> <u>Cadmium</u> <u>Chromium (Total)</u> <u>Cyanides (Total)⁷</u> <u>Cyanides (Amenable)⁷ <u>Lead</u> <u>Nickel</u> Silver</u>	of aluminum. 7440-43-9 7440-47-3 57-12-5 57-12-5 7439-92-1 7440-02-0 7440-22-4	0.69 2.77 1.2 0.86 0.69 3.98 <u>NA</u>	0.19 mg/l TCLP 0.86 mg/l TCLP 590 30 0.37 mg/l TCLP 5.0 mg/l TCLP 0.30 mg/l TCLP
F007 Spent cyanide plating bath s Cadmium Chromium (Total) Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Lead Nickel Silver	<u>olutions from e</u> 7440-43-9 7440-47-3 57-12-5 57-12-5 7439-92-1 7440-02-0 7440-22-4	<u>NA</u> 2.77 1.2 0.86 0.69 3.98 NA	<u>rations.</u> 0.19 mg/l TCLP 0.86 mg/l TCLP 590 30 0.37 mg/l TCLP 5.0 mg/l TCLP 0.30 mg/l TCLP
F008 Plating bath residues from t operations where cyanides ar Cadmium Chromium (Total) Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Lead Nickel Silver			<u>electroplating</u> <u>0.19 mg/l TCLP</u> <u>0.86 mg/l TCLP</u> <u>590</u> <u>30</u> <u>0.37 mg/l TCLP</u> <u>5.0 mg/l TCLP</u> <u>0.30 mg/l TCLP</u>
F009 Spent stripping and cleaning	both colutions	from algetraplat	ing onerstions
where cyanides are used in t <u>Cadmium</u> <u>Chromium (Total)</u> <u>Cyanides (Total)</u> ⁷ <u>Cyanides (Amenable)</u> ⁷ <u>Lead</u> <u>Nickel</u> <u>Silver</u>		<u>NA</u> 2.77 1.2 0.86 0.69 3.98 NA	0.19 mg/l TCLP 0.86 mg/l TCLP 590 30 0.37 mg/l TCLP 5.0 mg/l TCLP 0.30 mg/l TCLP
F010 Quenching bath residues from where cyanides are used in t Cyanides (Total) ⁷	<u>he process.</u> <u>57-12-5</u>	<u>metal heat treat</u> <u>1.2</u> <u>0.88</u>	<u>590</u>
<u>Cyanides (Amenable)⁷</u>	<u>57-12-5</u>	0.88	NA
<u>F011</u> <u>Spent cyanide solutions from</u> <u>operations.</u> <u>Cadmium</u> <u>Chromium (Total)</u>	salt bath pot 7440-43-9 7440-47-3	<u>cleaning from met</u> <u>NA</u> 2.77	al heat treating 0.19 mg/l TCLP 0.86 mg/l TCLP

Cyanides (Total) ⁷	57-12-5	1.2	<u>590</u>
Cyanides (Amenable) ⁷	57-12-5	0.86	30
Lead	7439-92-1	0.69	0.37 mg/1 TCLP
Nickel	7440-02-0	3.98	5.0 mg/l TCLP
<u>Silver</u>	7440-22-4	<u>NA</u>	0.30 mg/1 TCLP

<u>F012</u>

Quenching wastewater treatment sludges from metal heat treating operations where cvanides are used in the process.

<u>Cadmium</u> <u>Chromium (Total)</u> <u>Cyanides (Total)</u> ⁷	<u>7440-43-9</u> <u>7440-47-3</u> <u>57-12-5</u>	<u>NA</u> 2.77 1.2	0.19 mg/l TCLP 0.86 mg/l TCLP 590
Cyanides (Amenable) ⁷	57-12-5	0.86	<u>30</u>
Lead	<u>7439-92-1</u>	0.69	0.37 mg/l TCLP
Nickel	7440-02-0	3.98	5.0 mg/l TCLP
Silver	7440-22-4	NA	0.30 mg/l TCLP

F019

Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such

phosphating is an exclusive	conversion coa	ting process.	
Chromium (Total)	7440-47-3	2.77	0.86 mg/1 TCLP
Cyanides (Total) ⁷	57-12-5	1.2	590
Cyanides (Amenable) ⁷	57-12-5	0.86	30

F020, F021, F022, F023, F026

Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of: (1) tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives, excluding wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol (i.e., F020); (2) pentachlorophenol, or of intermediates used to produce its derivatives (i.e., F021); (3) tetra-, penta-, or hexachlorobenzenes under alkaline conditions (i.e., F022). Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of: (1) tri- or tetrachlorophenols, excluding wastes from equipment used only for the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol (F023); (2) tetra-, penta-, or hexachlorobenzenes under alkaline conditions (i.e., F026). HxCDDs (All Hexachloro-0.001 0.000063 NA dibenzo-p-dioxins) HxCDFs (All Hexachloro-NA 0.000063 0.001 dibenzofurans) PeCDDs (All Pentachloro-0.001 0.000063 <u>NA</u> dibenzo-p-dioxins) PeCDFs (All Pentachloro-NA 0.000035 0.001 dibenzofurans) TCDDs (All Tetrachloro-0.001 <u>NA</u> 0.000063 dibenzo-p-dioxins) TCDFs (All Tetrachloro-0.000063 0.001 NA dibenzofurans) 2,4,5-Trichlorophenol 95-95-4 0.18 $\frac{7.4}{7.4}$ 2,4,6-Trichlorophenol 88-06-2 0.035 2,3,4,6-Tetrachloro-58-90-2 0.030

phenol

2	~	^
.5	1	9
-	-	-

Pentachlorophenol	87-86-5	0.089	7.4

F027

Discarded unused formulations			
discarded unused formulations	containing c	ompounds derived f	rom these chloro-
phenols. (This listing does			
phene synthesized from prepur	ified 2,4,5-t	richlorophenol as	the sole
component.)			
HxCDDs (All Hexachloro-	<u>NA</u>	0.000063	<u>0.001</u>
<u>dibenzo-p-dioxins)</u>			
HxCDFs (All Hexachloro-	<u>NA</u>	0.000063	0.001
<u>dibenzofurans)</u>		0.000060	0.001
PeCDDs (All Pentachloro-	<u>NA</u>	0.000063	0.001
<u>dibenzo-p-dioxins)</u>		0.000075	0.001
PeCDFs (All Pentachloro-	<u>NA</u>	0.000035	0.001
<u>dibenzofurans)</u>		0,000063	0.001
TCDDs (All Tetrachloro-	NA	0.000063	0.001
<u>dibenzo-p-dioxins)</u>		0,000063	0.001
TCDFs (All Tetrachloro-	<u>NA</u>	0.000063	0.001
<u>dibenzofurans)</u>	05 05 4	0.18	T 4
2,4,5-Trichlorophenol	95-95-4	$\frac{0.18}{0.035}$	$\frac{7.4}{7.4}$
2,4,6-Trichlorophenol	88-06-2	0.035	$\frac{7.4}{7.4}$
2,3,4,6-Tetrachloro-	<u>58-90-2</u>	0.030	1.4
phenol	07 06 5	0 080	₩ A
Pentachlorophenol	87-86-5	0.089	7.4
2020			
<u>F028</u>			

Residues resulting from the incineration or thermal treatment of soil contaminated with U.S. EPA hazardous waste numbers F020, F021, F023, F026, and FO:

02	7.			
	HxCDDs (All Hexachloro-	NA	0.000063	<u>0.001</u>
	<u>dibenzo-p-dioxins)</u>			
	HxCDFs (All Hexachloro-	NA	0.000063	0.001
	<u>dibenzofurans)</u>			
	PeCDDs (All Pentachloro-	NA	<u>0.000063</u>	0.001
	<u>dibenzo-p-dioxins)</u>			
	PeCDFs (All Pentachloro-	<u>NA</u>	0.00035	<u>0.001</u>
	dibenzofurans)			
	TCDDs (All Tetrachloro-	<u>NA</u>	<u>0.000063</u>	0.001
	dibenzo-p-dioxins)			
	TCDFs (All Tetrachloro-	NA	0.000063	0.001
	dibenzofurans)			
	2,4,5-Trichlorophenol	<u>95-95-4</u>	0.18	7.4
	2,4,6-Trichlorophenol	88-06-2	0.035	7.4
	2,3,4,6-Tetrachloro-	<u>58-90-2</u>	0.030	7.4
	phenol			
	Pentachlorophenol	<u>87-86-5</u>	<u>0.089</u>	7.4

F024

1,2-Dichloroethane

Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in 35 Ill. Adm. Code 721.131 or 721.132.) All F024 wastes INCIN INCIN <u>NA</u> 126-99-8 0.28 2-Chloro-1, 3-butadiene 0.057 107-05-1 0.036 <u>30</u> 3-Chloropropylene 0.059 <u>6.0</u> 1,1-Dichloroethane 75-34-3

0.21

107-06-2

6.0

<u>1,2-Dichloropropane</u> <u>cis-1,3-Dichloro-</u> propylene	<u>78-87-5</u> 10061-01-5	<u>0.85</u> 0.036	<u>18</u> <u>18</u>
trans-1,3-Dichloro- propylene	10061-02-6	0.036	<u>18</u>
<u>bis(2-Ethylhexyl)</u> phthalate	117-81-7	0.28	<u>28</u>
<u>Hexachloroethane</u> Chromium (Total) Nickel	<u>67-72-1</u> 7440-47-3 7440-02-0	<u>0.055</u> <u>2.77</u> <u>3.98</u>	<u>30</u> 0.86 mg/l TCLP 5.0 mg/l TCLP

F025

Condensed light ends from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.

F025 - Light Ends Subcategor	Y		
Carbon tetrachloride	56-23-6	0.057	6.0
Chloroform	<u>67-66-3</u>	0.046	6.0
1,2-Dichloroethane	<u>107-06-2</u>	0.21	6.0
1,1-Dichloroethylene	75-35-4	0.025	6.0
Methylene chloride	<u>75-9-2</u>	0.089	30
1,1,2-Trichloroethane	79-00-5	0.054	6.0
Trichloroethylene	79-01-6	0.054	6.0
Vinyl chloride	75-01-4	0.27	6.0

<u>F025</u>

Spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.

F025 - Spent Fil	te	rs	or	Aids a	and	Desi	iccants S	Subcategory

- m				
	Carbon tetrachloride	56-23-5	0.067	6.0
	Chloroform	67-66-3	0.046	6.0
	Hexachlorobenzene	118-74-1	0.055	10
	Hexachlorobutadiene	87-68-3	0.055	5.6
	Hexachloroethane	67-72-1	0.055	30
	Methylene chloride	75-9-2	0.089	30
	1,1,2-Trichloroethane	79-00-5	0.054	6.0
	Trichloroethylene	79-01-6	0.054	6.0
	Vinyl chloride	75-01-4	0.27	6.0

<u>F037</u>

Petroleum refinery primary oil/water/solids separation sludge-Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in agressive biological treatment units as defined in 35 Ill. Adm. Code 721.131(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in agressive biological treatment units) and KOS1 wastes are not included in this listing. <u>Acenaphthene</u> 83-32-9 0.059 NA

Acenaphthene	83-32-9	0.059	<u>NA</u>
Anthracene	120-12-7	0.059	3.4
Benzene	71-43-2	0.14	10
Benz(a)anthracene	56-55-3	0.059	3.4

Benzo(a)pyrene	<u>50-32-8</u>	<u>0.061</u>	<u>3.4</u>
bis(2-Ethylhexyl)	117-81-7	0.28	28
<u>phthalate</u>	<u>218-01-9</u>	0.059	<u>3.4</u>
<u>Chrysene</u>	<u>84-74-2</u>	0.057	<u>28</u>
<u>Di-n-butyl phthalate</u>	<u>100-41-4</u>	0.057	<u>10</u>
<u>Ethylbenzene</u>	86-73-7	0.059	N3
<u>Fluorene</u> <u>Naphthalene</u> <u>Phenanthrene</u> <u>Phenol</u>	<u>91-20-3</u> <u>85-01-8</u> <u>108-95-2</u>	0.059 0.059 0.039	3.4 28 10 <u>NA</u> 5.6 5.6 6.2 8.2 <u>10</u> 30
Pyrene	<u>129-00-0</u>	<u>0.067</u>	<u>8.2</u>
Toluene	<u>108-88-3</u>	<u>0.080</u>	<u>10</u>
Xylenes-mixed isomers	1330-20-7	<u>0.032</u>	<u>30</u>
(sum of o-, m-, and p- xylene concentrations) Chromium (Total) Cyanides (Total) ²	<u>7440-47-3</u> 57-12-5	<u>2.77</u> <u>1.2</u>	<u>0.86 mg/l TCLP 590</u>
Lead	<u>7439-92-1</u>	<u>0.69</u>	<u>NA</u>
Nickel	7440-02-0	<u>NA</u>	5.0 mg/l TCLP

F038

Petroleum refinery secondary (emulsified) oil/water/solids separation sludge or float generated from the physical or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air floatation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in agressive biological treatment units as defined in 35 Ill. Adm. Code 721.131(b)(2) (including sludges and floats generated in one or more additional units after wastewaters have been treated in agressive biological units) and F037, K048, and K051 are not included in this listing. 71-43-2 0.14 10 Benzene Benzo(a)pyrene 50-32-8 0.061 3.4 117-81-7 28 bis(2-Ethylhexyl) 0.28 phthalate 0.059 218-01-9 3.4 Chrysene 84-74-2 28 Di-n-butyl phthalate 0.057 100-41-4 0.057 10 Ethylbenzene 86-73-7 Fluorene 0.059 NA 91-20-3 0.059 Naphthalene 5.6 85-01-8 0.059 5.6 Phenanthrene 108-95-2 0.039 6.2 Phenol 129-00-0 0.067 8.2 Pyrene 0.080 108-88-3 10 Toluene Xylenes-mixed isomers 1330-20-7 0.32 30 (sum of o-, m-, and pxylene concentrations) Chromium (Total) 0.86 mg/1 TCLP 7440-47-3 <u>2.77</u> Cyanides (Total) 590 57-12-5 1.2 7439-92-1 Lead 0.69 <u>NA</u> 7440-02-0 Nickel 5.0 mg/l TCLP NA

<u>F039</u>

Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under 728.Subpart D. (Leachate resulting from the disposal of one or more of the following U.S. EPA hazardous wastes and no other hazardous wastes retains its U.S. EPA hazardous waste numbers: F020, F021, F022, F026, F027, or F028.).

<u>chloridel</u> 2-Chloronaphthalene 2-Chlorophenol 3-Chloropropylene Chrygene o-Cregol	<u>ether</u> <u>p-Chloro-m-cresol</u> Chloromethane (Methyl	<u>methane</u> <u>bis(2-Chloroethyl)ether</u> <u>Chloroform</u> bis(2-Chloroisopropyl)-	gamma isomers) p-Chloroaniline Chlorobenzene Chlorobenzilate 2-Chloro-1,3-butadiene Chlorodibromomethane Chloroethane bis(2-Chloroethoxy)-	<u>phenol (Dinoseb)</u> <u>Carbon disulfide</u> <u>Carbon tetrachloride</u> <u>Chlordane (alpha and</u>	ether n-Butyl alcohol Butyl benzyl phthalate 2-sec-Butyl-4,6-dinitro-	<u>methanel</u> 4-Bromophenyl phenyl	(b)fluoranthene) Benzo(g,h,i)perylene Benzo(a)pyrene Bromodichloromethane Methyl bromide (Bromo-	<u>(difficult to</u> <u>distinguish from benzo-</u> <u>(k)fluoranthene)</u> <u>Benzo(k)fluoranthene</u> (difficult to distinguish from benzo-	
<u>91-58-7</u> <u>95-57-8</u> <u>107-05-1</u> <u>218-01-9</u> <u>95-48-7</u>	<u>59-50-7</u> 74-87-3	$\frac{111-44-4}{67-66-3}$ 108-60-1	<u>106-47-8</u> <u>108-90-7</u> <u>510-15-6</u> <u>126-99-8</u> <u>124-48-1</u> <u>75-00-3</u> <u>111-91-1</u>	<u>75-15-0</u> <u>56-23-5</u> <u>57-74-9</u>	71-36-3 85-68-7 88-85-7	101-55-3	<u>191-24-2</u> <u>50-32-8</u> <u>75-27-4</u> <u>74-83-9</u>	207-08-9	$\begin{array}{r} 208-96-8\\ 83-32-9\\ 67-64-1\\ 75-05-8\\ 96-86-2\\ 53-96-3\\ 107-02-8\\ 107-02-8\\ 107-02-8\\ 107-02-8\\ 107-02-8\\ 107-02-8\\ 319-86-3\\ 120-12-7\\ 319-86-8\\ 319-86-8\\ 58-89-9\\ 71-43-2\\ 58-89-9\\ 71-43-2\\ 58-55-3\\ 205-99-2\end{array}$
0.055 0.044 0.036 0.059 0.11	<u>0.018</u> 0.19	0.033 0.046 0.055	0.46 0.057 0.057 0.057 0.27 0.27 0.036	$\frac{3.8}{0.057}$	<u>5.6</u> 0.017 0.066	0.055	0.0055 0.061 0.35 0.11	0.11	$\begin{array}{r} 0.059\\ \hline 0.059\\ \hline 0.059\\ \hline 0.059\\ \hline 0.059\\ \hline 0.0014\\ \hline 0.059\\ \hline 0.017\\ \hline 0.059\\ \hline $
<u>5.6</u> <u>3.4</u>	<u>14</u> <u>30</u>	<u>6.0</u> 7.2	<u>6.0</u> <u>NA</u> <u>15</u> <u>7.2</u>	NA 6.0 0.26	2.5 2.5	<u>15</u>	<u>1.8</u> <u>15</u> <u>15</u>	6.8	$\begin{array}{r} 3.3.4\\ \underline{3.4}\\ \underline{160}\\ \underline{140}\\ \underline{100}\\ $

<u>pibromomethane</u> 2,4-D (2,4-Dichloro-<u>2,4-D (2,4-Dichloro-</u> <u>2,p'-DDD</u> <u>0,p'-DDD</u> <u>0,p'-DDE</u> <u>0,p'</u> <u>o-Dichlorobenzene</u> <u>p-Dichlorobenzene</u> <u>Dichlorodifluoromethane</u> <u>1,1-Dichloroethane</u> <u>1,2-Dichloroethane</u> <u>1,1-Dichloroethylene</u> <u>trans-1,2-Dichloro-</u> <u>ethylene</u> <u>(difficult to</u> distinguish from cresoll <u>p-Cresol</u> (difficult <u>Cyclohexanone</u> 1,2-Dibromo-3-chlorocresol) <u>n-Cresol</u> (difficult to listinguish from P⁻ Dibromoethanel propane Ethylene dibromide (1,2-1.4-Dinitrobenzene 4.6-Dinitrobenzene 2.4-Dinitrophenol 2.4-Dinitrotoluene 2.6-Dinitrotoluene <u>Di-n-propylnitrosamine</u> <u>1.4-Dioxane</u> <u>1.4-Dioxane</u> <u>1.4-Dioxane</u> <u>1.6-Dinitrosamine</u> <u>1.6-Dinitrosamine</u> <u>0 i phenylamine (difficult</u> <u>to distinguish from</u> <u>diphenylnitrosamine</u>) <u>Diphenylnitrosamine</u> 2,4-Dichlorophenol 2,6-Dichlorophenol 1,2-Dichloropropane cis-1,3-Dichloropropylene Dieldrin Diethyl phthalate 2-4-Dimethyl phenol Dimethyl phthalate <u>distinguish from</u> <u>distinguish from</u> <u>diphenylamine)</u> 1,2-Diphenylhydrazine Disulfoton <u>propylene</u> trans-1,3-Dichloro-Di-n-butyl phthalate a <u>108-94-1</u> 96-12-8 108-39-4 74-95-3 94-75-7 106-44-5 $53-19-0 \\ 772-54-8 \\ 3424-82-6 \\ 789-02-6 \\ 50-29-3 \\ 53-70-3 \\ 192-65-4 \\ 541-73-1 \\ 95-50-1 \\ 106-46-7 \\ 75-71-8 \\ 75-71-8 \\ 75-34-3 \\ 107-06-2 \\ 75-35-4 \\ 156-60-50-5 \\ 156-60-50-50-5 \\ 156-60-50-50-50-50-50-50-50-50-50-50-50-$ 106-93-4 <u>120-83-2</u> 87-65-0 78-87-5 $\begin{array}{r} 60-57-1\\ 84-66-2\\ 105-67-9\\ 131-11-3\\ 84-74-2\\ 534-52-1\\ 534-52-1\\ 51-28-5\\ 121-28-5\\ 606-20-2\\ 117-84-0\\ 621-64-7\\ 123-91-1\\ 122-39-4\end{array}$ 10061-01-5 10061-02-6 <u>122-66-7</u> 298-04-4 86-30-6 0.77 $\begin{array}{r} 0.023\\ 0.023\\ 0.031\\ 0.0039\\ 0.0059\\ 0.0059\\ 0.0059\\ 0.0054\\ 0.$ 0.77 0.36 $\frac{0.11}{0.72}$ 0.028 0.044 0.044 0.85 0.036 $\begin{array}{r} 0.017\\ \hline 0.20\\ \hline 0.036\\ \hline 0.047\\ \hline 0.057\\ \hline 0.32\\ \hline 0.3$ 0.036 NA 0.92 0.40 0.017 0.087 0.92 5.6

<u>Ethyl ether</u> <u>bis(2-Ethylhexyl)</u> <u>phthalate</u> <u>Ethyl methacrylate</u> Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopenta-<u>Endosulfan I</u> <u>Endosulfan II</u> Endosulfan sulfate Endrin Endrin aldehyde Methanol Methaprilene Methoxychlor 3-Methylene bis(2-chloroaniline) Methylene chloride Methyl ethyl ketone Methyl isobutyl ketone Methyl methansulfonate Methyl methansulfonate Methyl parathion Naphthalene 2-Naphthylamine b-Nitrobenzene 5-Nitroobenzene N-Nitrosodienethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine Ethyl benzene nitrile) Ethylene oxide Fluoranthene Famphur thyl Fluorene <u>pyrene</u> <u>Iodomethane</u> <u>Isobutyl alc</u> <u>Isodrin</u> <u>dibenzo-p-dioxins)</u> HxCDFs (All Hexachloro-<u>diene</u> HxCDDs (All Hexachlorothyl <u>Hexachloroethane</u> <u>Hexachloropropylene</u> Indeno (1,2,3-c,d) dibenzofurans) HxCDFs Methacrylonitrile Kepone Isosafrole <u>amine</u> N-Nitrosomethylethyl-<u>amine</u> N-Nitrosomorpholine acetate cyanide alcohol (Propane-<u>100-41-4</u> <u>60-29-7</u> <u>117-81-7</u> 141-78-6 107-12-0 $\frac{939-98-8}{33213-6-5}$ $\frac{1-31-07-8}{72-20-8}$ $\frac{7421-93-4}{7421-93-4}$ $\frac{206-44-0}{86-73-7}$ $\frac{86-73-7}{76-44-8}$ $\frac{1024-57-3}{118-74-1}$ $\frac{87-68-3}{77-47-4}$ 67-72-1 1888-71-7 193-39-5 97-63-2 75-21-8 52-85-7 $\frac{74-88-4}{78-83-1}$ $\frac{465-73-6}{120-58-1}$ $\frac{143-50-8}{126-98-7}$ $\frac{67-56-1}{91-80-5}$ $\frac{91-80-5}{56-49-5}$ $\frac{56-49-5}{101-14-4}$ NA NA 59-89-2 10595-95-6 24-16- $\begin{array}{r} 0.023\\ 0.029\\ 0.029\\ 0.0028\\ 0.0028\\ 0.025\\ 0.34\\ 0.34\\ 0.24 \end{array}$ $\begin{array}{r} 0.14\\ 0.12\\ 0.017\\ 0.068\\ 0.059\\ 0.0012\\ 0.016\\ 0.055\\ 0.055\\ 0.055\\ 0.055\\ 0.055\\ 0.055\\ 0.057\\ \end{array}$ 0.057 0.12 0.28 0.19 5.6 0.021 0.081 0.24 5.6 0.081 0.25 0.25 0.055 0.055 0.035 0.0055 0.000063 0.000063 $\begin{array}{r} 0.089\\ \hline 0.14\\ \hline 0.14\\ \hline 0.018\\ \hline 0.018\\ \hline 0.018\\ \hline 0.018\\ \hline 0.059\\ \hline 0.018\\ \hline 0.059\\ \hline 0.018\\ \hline 0.018\\ \hline 0.018\\ \hline 0.040\\ \hline 0.40\\ \hline 0.40\\ \hline 0.40\\ \hline 0.40\\ \hline 0.40\\ \hline \end{array}$ 0.40 0.40 $\begin{array}{r} 0.066 \\ \hline 0.13 \\ \hline 33 \\ \hline 360 \end{array}$ <u>NA</u> <u>3:4</u> <u>3:4</u> <u>0:066</u> <u>10</u> <u>5:6</u> <u>5:6</u> <u>2:4</u> 10 160 28 160 0.001 0.066 2.6 0.13 84 <u>65</u> 170 $\frac{30}{3 \cdot 4}$ 0.001NA 1.5 15 30 2.32.3

<u>N-Nitrosopiperidine</u> <u>N-Nitrosopyrrolidine</u> <u>Parathion</u> <u>Total PCBs</u> <u>[sum of all PCB isomers.</u> <u>[sum of all PCB isomers.</u> <u>or all Aroclors]</u> <u>Pentachlorobenzene</u> <u>PeCDDs (All Pentachloro-</u> <u>dibenzo-p-dioxins)</u> benzene TCDDs (All Tetrachloro-dibenzo-p-dioxins) TCDFs (All Tetrachloro-<u>Phorate</u> <u>Phthalic</u> <u>Pronamide</u> <u>dibenzofurans)</u> Pentachloronitrobenzene PCCDFs <u>Tetrachloroethylene</u> <u>2,3,4,6-Tetrachloro-</u> <u>phenol</u> <u>Toluene</u> <u>Toxaphene</u> <u>Bromoform</u> (Tribromo-<u>Phenacetin</u> <u>Phenanthrene</u> Pentachlorophenol PhenoL Pyrene methane
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
1,2,3-Trichloropropane
1,1,2-Trichloro-1,2,2trifluoroethane
tris(2,3-Dibromopropy1) 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichloromonofluoro-Silvex Safrole Pyridine 2,4,5-T 1,2,4,5-Tetrachloroethane 1,1,2,2-Tetrachloro-<u>dibenzofurans)</u> 1,1,1,2-Tetrachloro-<u>(sum or or, mr, and prylene concentrations)</u> <u>AntimonY</u> <u>Arsenic</u> <u>Barium</u> Beryllium ethane <u>phosphate</u> <u>Vinyl chloride</u> <u>Xylenes-mixed i</u> <u>methane</u>) (All Pentachloro-(2,4,5-TP) anhydride isomers <u>100-75-4</u> 9<u>30-55-2</u> <u>56-38-2</u> <u>1336-36-3</u> $\begin{array}{r} 82-68-8\\ 87-86-5\\ 62-44-2\\ 85-01-8\\ 108-95-2\\ 298-02-2\\ 85-44-9\\ 23950-58-5\\ 23950-58-5\\ \end{array}$ <u>608-93-5</u> NA NA $\frac{129-00-0}{110-86-1}$ $\frac{94-59-7}{93-72-1}$ $\frac{93-72-1}{93-76-5}$ $\frac{95-94-3}{95-94-3}$ NA NA <u>108-88-3</u> 8001-35-2 75-25-2 630-20-6 $\frac{120-82-1}{71-55-6}$ $\frac{79-00-5}{79-01-6}$ $\frac{75-69-4}{75-69-4}$ 79-34-6 <u>95-95-4</u> <u>88-06-2</u> <u>96-18-4</u> <u>76-13-1</u> 127-18-4 58-90-2 75-01-4 1330-20-7 7440-36-0 7440-38-2 7440-39-3 7440-41-7 126-72-7 $\begin{array}{r}
 0.013 \\
 0.013 \\
 0.014 \\
 0.10 \\
 \end{array}$ 0.055 0.000063 $\begin{array}{r} 0.055\\ \hline 0.089\\ \hline 0.089\\ \hline 0.059\\ \hline 0.021\\ \hline 0.055\\ \hline 0.055$ 0.000035 0.057 0.056 0.000063 0.055 0.00063 0.055 0.054 0.054 0.080 0.63 0.057 0.054 0.18 0.035 0.85 0.270.320.11 $\frac{1.9}{1.2}$ $\frac{1.2}{0.8}$ S 35 <u>35</u> <u>4.6</u> <u>10</u> 0.001 $\begin{array}{r} \underline{4.8}\\ \underline{7.4}\\ \underline{16}\\ \underline{5.6}\\ \underline{5.6}\\ \underline{4.6}\\ \underline{1.5}\\ \underline{12}\\ \underline{7.9}\\ \underline{7.9}\\ \underline{7.9}\\ \underline{7.9}\\ \underline{7.9}\\ \underline{14} \end{array}$ 0.0010.001 0.001 6.0 6.0 <u>6.0</u> 7.4 $\frac{10}{2.6}$ <u>19</u> <u>6.0</u> <u>30</u> 2.1 mg/1 TCLP 5.0 mg/1 TCLP 7.6 mg/1 TCLP $\frac{7.4}{30}$ <u>6.0</u> NA NA

<u>Cadmium</u> <u>Chromium (Total)</u> <u>Cyanides (Total)</u> ⁷ <u>Cyanides (Amenable)</u> ⁷ <u>Fluoride</u> <u>Lead</u> <u>Mercury</u> <u>Nickel</u> <u>Selenium</u> <u>Silver</u> <u>Sulfide</u> <u>Thallium</u> <u>Vanadium</u>	$\frac{7440-43-9}{7440-47-3}$ $\frac{57-12-5}{57-12-5}$ $\frac{16964-48-8}{7439-92-1}$ $\frac{7439-97-6}{7439-97-6}$ $\frac{7440-02-0}{7782-49-2}$ $\frac{7440-22-4}{8496-25-8}$ $\frac{7440-28-0}{7440-62-2}$	$ \begin{array}{r} 0.69 \\ 2.77 \\ 1.2 \\ 0.86 \\ 35 \\ 0.69 \\ 0.15 \\ \hline 3.98 \\ 0.82 \\ 0.43 \\ 14 \\ 1.4 \\ 4.3 \\ \end{array} $	0.19 mg/l TCLP 0.86 mg/l TCLP 590 NA 0.37 mg/l TCLP 0.025 mg/l TCLP 5.0 mg/l TCLP 0.16 mg/l TCLP 0.30 mg/l TCLP NA NA NA
K001			
Bottom sediment sludge from			wood preserving
processes that use creosote			
Naphthalene	<u>91-20-3</u>	0.059	5.6
<u>Pentachlorophenol</u> Phenanthr <u>ene</u>	<u>87-86-5</u> 85-01-8	<u>0.089</u> 0.059	7.4
Phenanchrene Pyrene	129-00-0	0.067	<u>5.6</u> 8.2
Toluene	108-88-3	0.080	10
Xylenes-mixed isomers	1330-20-7	0.32	30
(sum of o-, m-, and p-			2.2.
xylene concentrations)			
Lead	7439-92-1	0.69	0.37 mg/1 TCLP
		4,	
<u>K002</u>			
Wastewater treatment sludge	from the product	<u>ion of chrome yell</u>	<u>ow and orange</u>
pigments.			
Chromium (Total)	7440-47-3	2.77	0.86 mg/1 TCLP
Lead	<u>7439-92-1</u>	0.69	0.37 mg/1 TCLP
<u>K003</u> <u>Wastewater treatment sludge</u> <u>Chromium (Total)</u> Lead	from the product 7440-47-3 7439-92-1	<u>ion of molybdate c</u> <u>2.77</u> 0.69	orange pigments. 0.86 mg/l TCLP 0.37 mg/l TCLP
Deda	1407 72 4	0102	0107 11071 1001
<u>K004</u> <u>Wastewater treatment sludge</u> <u>Chromium (Total)</u> <u>Lead</u>	from the product 7440-47-3 7439-92-1	ion of zinc yellow 2.77 0.69	<u>pigments.</u> 0.86 mg/l TCLP 0.37 mg/l TCLP
<u>K005</u>			
Wastewater treatment sludge			
Chromium (Total)	7440-47-3	$\frac{2.77}{2.77}$	0.86 mg/1 TCLP
Lead	7439-92-1	0.69	0.37 mg/1 TCLP
Cyanides $(Total)^7$	<u>57-12-5</u>	1.2	<u>590</u>
<u>K006</u> <u>Wastewater treatment sludge</u> (anhydrous).	from the product	ion of chrome oxid	<u>le green pigments</u>
Chromium (Total)	7440-47-3	2.77	0.86 mg/1 TCLP
Lead	7439-92-1	0.69	0.37 mg/1 TCLP
<u>K006</u>			
Wastewater treatment sludge	from the product	ion of chrome oxid	<u>le green pigments</u>
(hydrated).			• • • • • • • • • • • • • • • • • • •
<u>Chromium (Total)</u>	7440-47-3	$\frac{2.77}{2.60}$	0.86 mg/1 TCLP
Lead	7439-92-1	0.69	NA

<u> K007</u>

<u>K007</u>			
Wastewater treatment sludge			
Chromium (Total)	7440-47-3	$\frac{2.77}{10}$	0.86 mg/l TCLP
Lead	7439-92-1	0.69	0.37 mg/1 TCLP
Cyanides (Total) ⁷	57-12-5	1.2	<u>590</u>
K008			
Oven residue from the product	ion of chrome ox	ide green pigment:	3.
Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
Lead	7439-92-1	0.69	0.37 mg/1 TCLP
<u>K009</u>			
Distillation bottoms from the			
Chloroform	67-66-3	0.046	<u>6.0</u>
K010			
Distillation side cuts from t	the production of	acetaldehvde fro	m ethvlene.
Chloroform	67-66-3	0.046	6.0
		-Tententer de la companya de la comp	
<u>K011</u>			
Bottom stream from the waster			
Acetonitrile	75-05-8	5.6	<u>18</u>
Acrylonitrile	<u>107-13-1</u>	0.24	84 23 10
Acrylamide	<u>79-06-1</u>	<u>19</u>	23
Benzene	<u>71-43-2</u>	0.14	<u>10</u>
Cyanide (Total)	57-12-5	1.2	<u>590</u>
<u>K013</u>			
Bottom stream from the acetor			
Acetonitrile	<u>75-05-8</u>	5.6	<u>1.8</u>
Acrylonitrile	<u>107-13-1</u>	0.24	84
Acrylamide	<u>79-06-1</u>	<u>19</u>	23
Benzene	<u>71-43-2</u>	0.14	10
Cyanide (Total)	57-12-5	1.2	590
K014 Rettore from the exctonituil		lump in the sundu	obion of
Bottoms from the acetonitrile	purification co	fumn in the produ	CLION OI
acrylonitrile.	75 05 0		1 0
Acetonitrile	75-05-8	5.6	$\frac{1.8}{1.8}$
Acrylonitrile	107 - 13 - 1	0.24	84
Acrylamide	<u>79-06-1</u>	19	23
Benzene	<u>71-43-2</u>	0.14	84 23 10 590
<u>Cyanide (Total)</u>	57-12-5	<u>1.2</u>	<u>590</u>
<u>K015</u>			
Still bottoms from the disti	lation of benzyl	chloride.	
Anthracene	120-12-7	0.059	3.4
Benzal chloride	98-87-3	0.055	5.4
Benzo(b)fluoranthene	205-99-2	0.11	<u>6.0</u> <u>6.8</u>
(difficult to	203-99-2	0.11	0.0
distinguish from benzo-			
(k)fluoranthene)		o 11	6 0
<u>Benzo(k)fluoranthene</u>	207-08-9	0.11	<u>6.8</u>
(difficult to			
distinguish from benzo-			
(b)fluoranthene)	95.01.9	0.050	F (
<u>Phenanthrene</u>	85-01-8	0.059	5.6
Toluene	108-88-3	0.080	<u>10</u>
Chromium (Total)	7440-47-3	2.77	0.86 mg/1 TCLP
Nickel	7440-02-0	3.98	5.0 mg/l TCLP

nds
о <mark>г</mark>
nds or distillation residues from the production of carbon tetra-
residues
from
the
production of
f carbon te
tra-

<u>diene</u> <u>Hexachloroethane</u> Tetrachloroethylene	<u>chloride.</u> <u>Hexachlorobenzene</u> <u>Hexachlorobutadiene</u> Hexachlorocyclopenta-	<u>K016</u> Heavy ends or distillation
<u>67-72-1</u> <u>127-18-4</u>	<u>118-74-1</u> <u>87-68-3</u> <u>77-47-4</u>	residues from the
0.055 0.056	0.055 0.055 0.055 0.057	e production of
<u>30</u> <u>6.0</u>	<u>10</u> <u>2.4</u>	carbon tetra-

K017 Heavy Ĵ D, (still bottoms) from the purification column in the production of

<u>neavy encodydrin.</u> <u>epichlorohydrin.</u> <u>bis(2-Chloroethyl)ether</u> <u>1,2-Dichloropropane</u> <u>1,2,3-Trichloropropane</u> <u>9</u>
<u>111-44-4</u> <u>78-87-5</u> <u>96-18-4</u>
0.033 0.85 0.85
<u>6.0</u> <u>30</u>

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eavy ends from the fractions <u>Chloroethane</u> <u>Chloromethane</u> <u>1,1-Dichloroethane</u> <u>1,2-Dichloroethane</u> <u>Hexachlorobutadiene</u> <u>Hexachloroethane</u> <u>Pentachloroethane</u> <u>1,1,1-Trichloroethane</u>	
	nation column
$\begin{array}{r} 0.27\\ 0.19\\ 0.059\\ 0.055\\ 0.055\\ 0.055\\ 0.055\\ 0.054\\ 0.054\end{array}$	in ethyl chloride
6.00 6.00 6.00 6.00	production.

K019 Heavy produc ends from the distillation of ethylene dichloride in ethylene dichloride

<u>bis(2-Chloroethyl)ether</u> <u>bis(2-Chloroethyl)ether</u> <u>Chlorobenzene</u> <u>chloroform</u> <u>p-Dichlorobenzene</u> <u>1,2-Dichloroethane</u> <u>Fluorene</u> <u>Hexachloroethane</u> <u>Hexachloroethane</u> <u>naphthalene</u> <u>phenanthrene</u> <u>1,2,4,5-Tetrachloro-</u> <u>benzene</u> <u>1,2,4-Trichloroethane</u> <u>1,1,1-Trichloroethane</u>
$\begin{array}{r} \underline{111-44-1}\\ \underline{108-90-7}\\ \underline{67-66-3}\\ \underline{106-46-7}\\ \underline{106-46-7}\\ \underline{96-706-2}\\ \underline{86-70-6-2}\\ \underline{86-70-2-1}\\ \underline{91-20-3}\\ \underline{85-01-8}\\ \underline{95-94-3}\\ \underline{95-94-3}\\ \underline{120-82-1}\\ \underline{120-82-1}\\ \underline{120-82-1}\\ \underline{71-55-6} \end{array}$
$\begin{array}{r} 0.033\\ 0.057\\ 0.046\\ 0.059\\ 0.059\\ 0.059\\ 0.055\\ 0.055\\ 0.055\\ 0.055\\ 0.055\\ 0.055\\ \end{array}$
<u>6.0</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u>

<u>K020</u> Heavy ends from the distillation of vinyl chloride <u>in vinyl</u> chloride monomer σ О

<u>ethane</u> Tetrachloroethylene	production. <u>1,2-Dichloroethane</u> 1,1,2,2-Tetrachloro-
127-18-4	<u>107-06-2</u> 79-34-6
0.056	$\frac{0.21}{0.057}$
<u>6.0</u>	6.0

K021Aqueous spent antimony catalyst waste fiAqueous spent antimony catalyst waste fiCarbon tetrachloride56-23-5Chloroform67-66-3Antimony7440-36-0 from <u>fluoromethanes production.</u> 0.057 <u>6.0</u> 0.046 <u>6.0</u> <u>1.9</u> <u>2.1 m</u> mg/1 TCLP

<u>K022</u>

<u>K022</u> Distillation bottom tars from	the production (of phonol or acet	one from cumene.
Toluene	108-88-3	0.080	<u>10</u>
Acetophenone	96-86-2	0.010	<u></u> 9.7
Diphenylamine (difficult	122-39-4	0.92	<u>9.7</u> <u>13</u>
to distinguish from			
diphenylnitrosamine)			
Diphenylnitrosamine	<u>86-30-6</u>	0.92	<u>13</u>
<u>(difficult to</u>			
distinguish from			
diphenylamine)	100 05 0	0.030	
Phenol	<u>108-95-2</u>	0.039	$\frac{6.2}{0.06}$
Chromium (Total)	<u>7440-47-3</u> 7440-02-0	<u>2.77</u> 3.98	0.86 mg/l TCLP 5.0 mg/l TCLP
<u>Nickel</u>	7440-02-0	5.90	5.0 mg/1 TODE
<u>K023</u>			
Distillation light ends from	the production o	<u>f phthalic anhydr</u>	<u>ide from</u>
naphthalene.			
Phthalic anhydride	100-21-0	0.055	<u>28</u>
(measured as Phthalic			
acid or Terephthalic			
acid)	05 44 0	0.055	
Phthalic anhydride	85-44-9	0.055	<u>28</u>
K024			
Distillation bottoms from the	production of p	hthalic anhydride	from
naphthalene.	produceron or p	nemarro anny arrae	
Phthalic anhydride	100-21-0	0.055	28
(measured as Phthalic			
acid or Terephthalic			
acid)			
Phthalic anhydride	85-44-9	0.055	28
K025 Distillation bottoms from the	production of n	itrohonnono bu th	a nitration of
benzene.	s produceron or n	iciobelizene by ch	e micración or
NA	NA	LLEXT fb SSTRP	INCIN
1111	1111	fb CARBN; or	2110211
		INCIN	
<u>K026</u>			
Stripping still tails from th	ne production of	<u>methyl ethyl pyri</u>	
NA	NA	INCIN	INCIN
<u>K027</u>			
Centrifuge and distillation			
NA	NA	<u>CARBN; or</u> <u>INCIN</u>	CMBST
		THOTH	
¥039			
K028 Spent catalyst from the hydro	ochlorinator reac	tor in the produc	tion of 1,1,1-
Spent catalyst from the hydro	ochlorinator reac	tor in the produc	tion of 1,1,1-
Spent catalyst from the hydro trichloroethane. 1,1-Dichloroethane	<u>ochlorinator reac</u> <u>75-34-3</u>	tor in the produc	
Spent catalyst from the hydro trichloroethane. <u>1,1-Dichloroethane</u> trans-1,2-Dichloro-			<u>tion of 1,1,1-</u> <u>6.0</u> <u>30</u>
Spent catalyst from the hydro trichloroethane. <u>1,1-Dichloroethane</u> trans-1,2-Dichloro- ethylene	<u>75-34-3</u> <u>156-60-5</u>	<u>0.059</u> <u>0.054</u>	<u>6.0</u> <u>30</u>
Spent catalyst from the hydro trichloroethane. <u>1,1-Dichloroethane</u> trans-1,2-Dichloro- ethylene <u>Hexachlorobutadiene</u>	<u>75-34-3</u> <u>156-60-5</u> <u>87-88-3</u>	0.059 0.054 0.055	<u>6.0</u> <u>30</u> 5.6
Spent catalyst from the hydro trichloroethane. <u>1,1-Dichloroethane</u> trans-1,2-Dichloro- ethylene <u>Hexachlorobutadiene</u> <u>Hexachloroethane</u>	<u>75-34-3</u> <u>156-60-5</u> <u>87-88-3</u> <u>67-72-1</u>	0.059 0.054 0.055 0.055	<u>6.0</u> <u>30</u> <u>5.6</u> <u>30</u>
Spent catalyst from the hydro trichloroethane. <u>1,1-Dichloroethane</u> trans-1,2-Dichloro- ethylene Hexachlorobutadiene Hexachloroethane Pentachloroethane	<u>75-34-3</u> <u>156-60-5</u> <u>87-88-3</u> <u>67-72-1</u> <u>76-01-7</u>	0.059 0.054 0.055 0.055 NA	<u>6.0</u> <u>30</u> <u>5.6</u> <u>30</u>
Spent catalyst from the hydro trichloroethane. <u>1,1-Dichloroethane</u> trans-1,2-Dichloro- ethylene Hexachlorobutadiene Hexachloroethane Pentachloroethane 1,1,1,2-Tetrachloro-	<u>75-34-3</u> <u>156-60-5</u> <u>87-88-3</u> <u>67-72-1</u>	0.059 0.054 0.055 0.055	<u>6.0</u> <u>30</u> 5.6
Spent catalyst from the hydro trichloroethane. <u>1,1-Dichloroethane</u> trans-1,2-Dichloro- ethylene Hexachlorobutadiene Hexachloroethane <u>1,1,1,2-Tetrachloro- ethane</u>	$\frac{75-34-3}{156-60-5}$ $\frac{87-88-3}{67-72-1}$ $\frac{76-01-7}{630-20-6}$	0.059 0.054 0.055 0.055 <u>NA</u> 0.057	<u>6.0</u> <u>30</u> <u>5.6</u> <u>30</u> <u>6.0</u> <u>6.0</u>
Spent catalyst from the hydro trichloroethane. <u>1,1-Dichloroethane</u> trans-1,2-Dichloro- ethylene Hexachlorobutadiene Hexachloroethane Pentachloroethane 1,1,1,2-Tetrachloro-	<u>75-34-3</u> <u>156-60-5</u> <u>87-88-3</u> <u>67-72-1</u> <u>76-01-7</u>	0.059 0.054 0.055 0.055 NA	<u>6.0</u> <u>30</u> <u>5.6</u> <u>30</u>

127-18-4	0.056	<u>6.0</u>
71-55-6	0.054	6.0
79-00-5	0.054	6.0
7440-43-9	0.69	NA
7440-47-3	2.77	0.86 mg/1 TCLP
7439-92-1	0.69	0.37 mg/1 TCLP
7440-02-0	3.98	5.0 mg/l TCLP
	71-55-6 79-00-5 7440-43-9 7440-47-3 7439-92-1	$\begin{array}{cccc} \hline 71-55-6 & 0.054 \\ \hline 79-00-5 & 0.054 \\ \hline 7440-43-9 & 0.69 \\ \hline 7440-47-3 & 2.77 \\ \hline 7439-92-1 & 0.69 \end{array}$

<u>K029</u>

Waste from the product steam stripper in the production of 1,1,1-trichloroethane.

Chloroform	<u>67-66-3</u>	0.046	<u>6.0</u>
1,2-Dichloroethane	<u>107-06-2</u>	0.21	6.0
1,1-Dichloroethylene	75-35-4	0.025	6.0
1,1,1-Trichloroethane	71-55-6	0.054	6.0
Vinyl chloride	75-01-4	0.27	6.0

<u> KO30</u>

Column bodies or heavy ends from the combined production of trichloroethylene and perchloroethylene.

and perchioroechylene.				
o-Dichlorobenzene	<u>95-50-1</u>	0.088	NA	
p-Dichlorobenzene	106-46-7	0.090	NA	
Hexachlorobutadiene	87-68-3	0.055	5.6	
Hexachloroethane	67-72-1	0.055	30	
exachloropropylene	1888-71-7	NA	30	
entachlorobenzene	<u>608-93-5</u>	NA	10	
entachloroethane	76-01-7	NA	6.0	
1,2,4,5-Tetrachloro-	<u>95-94-3</u>	0.055	14	
benzene				
etrachloroethylene	<u>127-18-4</u>	0.056	6.0	
1,2,4-Trichlorobenzene	120-82-1	0.055	<u>19</u>	

<u>K031</u>

By-product salts	generated	in the	production	of MSMA	and cacodylic acid.
Arsenic		744	0-38-2	1.4	5.0 mg/l TCLP

<u> K032</u>

Wastewater treatment sludge	from the produ	ction of chlordar	ne.
Hexachlorocyclopenta-	77-47-4	0.057	2.4
<u>diene</u> <u>Chlordane (alpha and</u> <u>gamma isomers)</u>	57-74-9	0.0033	0.26
<u>Heptachlor</u> Heptachlor epoxide	<u>76-44-8</u> 1024-57-3	$\frac{0.0012}{0.016}$	<u>0.066</u> 0.066

<u>K033</u>

Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.

Hexachlorocyclopenta-	77-47-4	0.057	2.4
diene			

<u>K034</u>

Filter solids	from the	filtration	of	hexachlorocyclopentadiene	in	the
production of	chlordane	<u>.</u>				
Hexachloro	ocyclopenta	- 77-4	47-4	0.057	2.	4
<u>diene</u>						

<u>KO35</u> Waste

<u>Wastewater treat</u>	ment sludges	generated	in the	production	of creos	sote.
Acenaphthene		83-32-9		NA	3	.4
<u>Anthracene</u>		<u>120-12-7</u>		NA	3	.4

Benz(a)anthracene Benzo(a)pyrene Chrysene o-Cresol <u>m-Cresol</u> (difficult to distinguish from p-	56-55-3 50-32-8 218-01-9 95-48-7 108-39-4	0.059 0.061 0.059 0.11 0.77	3.4 3.4 3.4 5.6 5.6
<u>cresol)</u> <u>p-Cresol</u> <u>(difficult to</u> <u>distinguish from m-</u>	<u>106-44-5</u>	<u>0.77</u>	<u>5.6</u>
<u>cresol)</u> <u>Dibenz(a,h)anthracene</u> <u>Fluoranthene</u> <u>Fluorene</u> <u>Indeno(1,2,3-cd)pyrene</u> <u>Naphthalene</u> <u>Phenanthrene</u> <u>Phenol</u> <u>Pyrene</u>	$\frac{53-70-3}{206-44-0}$ $\frac{86-73-7}{193-39-5}$ $\frac{91-20-3}{85-01-8}$ $108-95-2$ $129-00-0$	<u>NA</u> 0.068 <u>NA</u> 0.059 0.059 0.039 0.039 0.067	8.2 3.4 3.4 5.6 5.6 5.6 6.2 8.2
K036 Still bottoms from toluene p disulfoton.	reclamation dist	illaiton in the p	production of
Disulfoton	298-04-4	0.017	<u>6.2</u>
K037 Wastewater treatment sludges Disulfoton Toluene K038	<u>298-04-4</u> 108-88-3	<u>0.017</u> 0.080	<u>6.2</u> <u>10</u>
<u>Wastewater from the washing</u> <u>Phorate</u>	and stripping c 298-02-2	of phorate product 0.021	<u>tion.</u> <u>4.6</u>
K039 Filter cake from the filtrat	tion of diethylr	phosphorodithioic	
	<u>tion of diethylr</u> <u>NA</u>	phosphorodithioic <u>CARBN; or</u> <u>INCIN</u>	
Filter cake from the filtration of phorate. NA K040	<u>NA</u>	<u>CARBN; or</u> <u>INCIN</u>	acid in the
Filter cake from the filtrate production of phorate. NA	<u>NA</u>	<u>CARBN; or</u> <u>INCIN</u>	acid in the
Filter cake from the filtration production of phorate. <u>NA</u> <u>KO40</u> <u>Wastewater treatment sludge</u> <u>Phorate</u> <u>KO41</u>	NA from the produc 298-02-2	CARBN; or INCIN tion of phorate. 0.021	acid in the CMBST 4.6
Filter cake from the filtration of phorate. NA KO40 Wastewater treatment sludge Phorate	NA from the produc 298-02-2	CARBN; or INCIN tion of phorate. 0.021	acid in the CMBST 4.6
Filter cake from the filtration production of phorate. NA KO40 Wastewater treatment sludge Phorate KO41 Wastewater treatment sludge Toxaphene KO42	NA from the product 298-02-2 from the product 8001-35-2	<u>CARBN; or</u> <u>INCIN</u> <u>otion of phorate.</u> <u>0.021</u> <u>otion of toxaphene</u> <u>0.0095</u>	acid in the CMBST 4.6 2.6
Filter cake from the filtration production of phorate. NA KO40 Wastewater treatment sludge Phorate KO41 Wastewater treatment sludge Toxaphene KO42 Heavy ends or distillation for	NA from the product 298-02-2 from the product 8001-35-2 residues from the	<u>CARBN; or</u> <u>INCIN</u> <u>otion of phorate.</u> <u>0.021</u> <u>otion of toxaphene</u> <u>0.0095</u>	acid in the CMBST 4.6 2.6
Filter cake from the filtration production of phorate. NA KO40 Wastewater treatment sludge Phorate KO41 Wastewater treatment sludge Toxaphene KO42	NA from the product 298-02-2 from the product 8001-35-2 residues from the	<u>CARBN; or</u> <u>INCIN</u> <u>otion of phorate.</u> <u>0.021</u> <u>otion of toxaphene</u> <u>0.0095</u>	acid in the CMBST 4.6 2.6
Filter cake from the filtration Filter cake from the filtration production of phorate. NA K040 Wastewater treatment sludge Phorate K041 Wastewater treatment sludge Toxaphene K042 Heavy ends or distillation of the production of the produc	<u>NA</u> <u>from the product</u> <u>298-02-2</u> <u>from the product</u> <u>8001-35-2</u> <u>residues from th</u> <u>52,4,5-T.</u> <u>95-50-1</u> <u>106-46-7</u>	CARBN; or INCIN stion of phorate. 0.021 stion of toxaphene 0.0095 ne distillation of 0.088 0.090	acid in the <u>CMBST</u> <u>4.6</u> <u>2.6</u> <u>f tetrachloro-</u> <u>6.0</u> <u>6.0</u>
Filter cake from the filtration Filter cake from the filtration production of phorate. NA K040 Wastewater treatment sludge Phorate K041 Wastewater treatment sludge Toxaphene K042 Heavy ends or distillation of the production of the produc	<u>NA</u> <u>from the product</u> <u>298-02-2</u> <u>from the product</u> <u>8001-35-2</u> <u>residues from th</u> <u>52,4,5-T.</u> <u>95-50-1</u> <u>106-46-7</u> <u>608-93-5</u>	CARBN; or INCIN 2tion of phorate. 0.021 2tion of toxaphene 0.0095 ne distillation of 0.088 0.090 0.055	acid in the <u>CMBST</u> $\frac{4.6}{2.6}$ <u>2.6</u> <u>f tetrachloro-</u> $\frac{6.0}{10}$
Filter cake from the filtration Filter cake from the filtration production of phorate. NA K040 Wastewater treatment sludge Phorate K041 Wastewater treatment sludge Toxaphene K042 Heavy ends or distillation of phorate O-Dichlorobenzene p-Dichlorobenzene	<u>NA</u> <u>from the product</u> <u>298-02-2</u> <u>from the product</u> <u>8001-35-2</u> <u>residues from th</u> <u>52,4,5-T.</u> <u>95-50-1</u> <u>106-46-7</u>	CARBN; or INCIN stion of phorate. 0.021 stion of toxaphene 0.0095 ne distillation of 0.088 0.090	acid in the <u>CMBST</u> <u>4.6</u> <u>2.6</u> <u>f tetrachloro-</u> <u>6.0</u> <u>6.0</u>
Filter cake from the filtration Filter cake from the filtration production of phorate. NA K040 Wastewater treatment sludge Phorate K041 Wastewater treatment sludge Toxaphene K042 Heavy ends or distillation of phorate O-Dichlorobenzene P-Dichlorobenzene Pentachlorobenzene 1,2,4,5-Tetrachloro- benzene	NA from the product 298-02-2 from the product 8001-35-2 residues from th 2,4,5-T. 95-50-1 106-46-7 608-93-5 95-94-3 120-82-1	CARBN; or INCIN stion of phorate. 0.021 stion of toxaphene 0.0095 ne distillation of 0.088 0.090 0.055 0.055 0.055	acid in the <u>CMBST</u> $\frac{4.6}{2.6}$ $\frac{2.6}{10}$ $\frac{6.0}{10}$ $\frac{14}{14}$

<u>(sum of 0-, m-, and P</u> <u>xylene concentrations)</u> <u>Chromium (Total)</u> <u>Cyanides (Total)</u> <u>Lead</u> <u>Nickel</u>	<u>phthalate</u> <u>Di-n-butyl phthalate</u> <u>Ethylbenzene</u> <u>Fluorene</u> <u>Naphthalene</u> <u>Phenol</u> <u>Phenol</u> <u>Pyrene</u> <u>Toluene</u> <u>Xylenes-mixed isomers</u>	<u>K048</u> Dissolved air flotation (DAF) <u>Benzene</u> Benzo(a)pyrene bis(2-Ethylhexyl)	<u>K047</u> <u>Pink or red water from TNT c</u> <u>NA</u>	<u>K046</u> <u>Wastewater treatment sludges from the m</u> <u>of lead-based initiating compounds.</u> <u>Lead</u> 7439-92-1	<u>K045</u> <u>Spent carbon from the treatment</u> <u>NA</u>	<u>K044</u> <u>Wastewater treatment sludges</u> <u>explosives.</u> <u>NA</u>	2,6-Dichlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,3,4,6-Tetrachloro- phenol Pentachlorophenol Tetrachloroethylene HxCDDs (All Hexachloro- dibenzofurans) PecDDs (All Pentachloro- dibenzofurans) PecDFs (All Pentachloro- dibenzofurans) TCDDs (All Tetrachloro- dibenzofurans) TCDFs (All Tetrachloro- dibenzofurans) TCDFs (All Tetrachloro- dibenzofurans)
<u>7440-47-3</u> <u>57-12-5</u> <u>7439-92-1</u> <u>7440-02-0</u>	$\begin{array}{r} \underline{218-01-9}\\ \underline{84-74-2}\\ \underline{100-41-2}\\ \underline{86-73-7}\\ \underline{91-20-3}\\ \underline{85-01-8}\\ \underline{108-95-2}\\ \underline{129-00-0}\\ \underline{108-88-33}\\ \underline{1330-20-7}\end{array}$	F) float from the 71-43-2 50-32-8 117-81-7	operations. <u>NA</u>	a from the manufa npounds. 7439-92-1	<u>ent of wastewater</u> <u>NA</u>	from the manufac	<u>187-65-0</u> <u>95-95-4</u> <u>88-06-2</u> <u>58-90-2</u> <u>87-86-5</u> <u>127-18-4</u> <u>NA</u> <u>NA</u> <u>NA</u> <u>NA</u> <u>NA</u>
<u>2.77</u> <u>1.2</u> <u>0.69</u> <u>NA</u>	0.059 0.057 0.057 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059	<u>petroleum refining</u> 0.14 0.061 0.28	DEACT	<u>manufacturing, formulation</u> <u>-1</u> 0.69	<u>r containing explosives.</u> <u>DEACT</u> <u>DEAC</u>	the manufacturing and proce DEACT	$\begin{array}{c} 0.044\\ 0.18\\ 0.035\\ 0.035\\ 0.030\\ 0.000\\ 0.056\\ 0.000063\\ 0.000063\\ 0.000063\\ 0.000063\\ 0.000063\\ 0.000063\\ 0.000063\end{array}$
<u>0.86 mg/l TCLP 590</u> <u>NA</u> <u>5.0 mg/l TCLP</u>	<u>3.4</u> <u>10</u> <u>5.6</u> <u>30</u>	<u>ning industry.</u> <u>10</u> <u>3.4</u> <u>28</u>	DEACT	tion and loading 0.37 mg/l TCLP	<u>losives.</u> <u>DEACT</u>	processing of DEACT	$\frac{14}{7.4} \\ \frac{7.4}{7.4} \\ \frac{7.4}{0.001} \\ 0.001 \\ 0$

.

<u>K052</u> <u>Tank bottoms (leaded) from the</u> <u>Benzene</u>	<u>(sum of or , , , , , , , , , , , , , , , , , , </u>	ne ne nthracene nthracene pyrene hylhexyll e izene izene irene irene inixed isomers	clea	<u>(sum C. C</u>	n solids from ne exyl) fide phenol phenol
<u>petroleum 71-43-2</u>	<u>57-12-5</u> <u>7440-47-3</u> <u>7439-92-1</u> <u>7440-02-0</u>	$\begin{array}{r} 83 - 32 - 9 \\ \hline 120 - 12 - 7 \\ \hline 56 - 55 - 3 \\ 71 - 43 - 2 \\ \hline 50 - 32 - 8 \\ 117 - 81 - 7 \\ \hline 2218 - 01 - 9 \\ \hline 105 - 67 - 9 \\ \hline 105 - 9 \\ \hline$	<u>sludge fro 50-32-8</u> <u>108-95-2</u> <u>57-12-5</u> <u>7440-47-3</u> <u>7439-92-1</u> <u>7440-02-0</u> <u>7440-02-0</u>	$\frac{57 - 12 - 5}{7440 - 47 - 3}$ $\frac{7439 - 92 - 1}{7440 - 02 - 0}$	<u>the petroleum</u> <u>120-12-7</u> <u>71-43-2</u> <u>50-32-8</u> <u>117-81-7</u> <u>75-15-0</u> <u>2218-01-9</u> <u>105-67-9</u> <u>105-67-9</u> <u>105-67-9</u> <u>105-67-9</u> <u>108-95-2</u> <u>129-00-0</u> <u>108-88-3</u> <u>1330-20-7</u>
<u>refining industry.</u> 0.14	<u>1.2</u> <u>2.77</u> <u>0.69</u> <u>NA</u>	0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059 0.059	eum	<u>1.2</u> 2.77 0.69 NA	refining industry. 0.059 0.14 0.061 0.061 0.059 0.061 0.059 0.059 0.059 0.061 0.059 0.036 0.039 0.039
• <u>10</u>	<u>590</u> 0.86 mg/l TCLP <u>NA</u> 5.0 mg/l TCLP	300 300 300 300 300 300 300 300	<u>refining inquary:</u> <u>3.4</u> <u>5.90</u> <u>0.86 mg/l TCLP</u> <u>NA</u> <u>5.0 mg/l TCLP</u> <u>5.0 mg/l TCLP</u>		<u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>3.6</u> <u>3.4</u> <u>3.4</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u> <u>3.6</u>

<u>X069</u> Emission control dust or sludge sulfate (Low Lead) Subcategory	<u>K062</u> <u>Spent pickle liquor generated</u> <u>within the iron and steel ind</u> <u>Chromium (Total)</u> <u>Lead</u> <u>Nickel</u>	<u>Zinc</u>	<u>Nickel</u> <u>Selenium</u> <u>Silver</u> <u>Thallium</u>	<u>Cadmium</u> <u>Chromium (Total)</u> <u>Lead</u> <u>Mercury</u>	<u>Kupi</u> Emission control dust or sl electric furnaces. AntimonY Arsenic Barium Beryllium	nia still lime sludge jenzene jenzo(a)pyrene japhthalene phenol Syanides (Total) ⁷	<u>xylene concentrations)</u> <u>Chromium (Total)</u> <u>Cyanides (Total)</u> <u>Lead</u> <u>Nickel</u>	<u>cresol</u>) <u>cresol</u>) <u>2,4-Dimethylphenol</u> <u>Ethylbenzene</u> <u>Naphthalene</u> <u>Phenanthrene</u> <u>Phenol</u> <u>Toluene</u> <u>Xylenes-mixed isomers</u> <u>Xylenes-mixed isomers</u>		Benzo(a)pyrene o-Cresol m-Cresol (difficult to	
<u>sludge from secondary</u> egory	by steel ustry (SI 7440-47- 7439-92- 7440-02-	7440-66-6	<u>7440-02-0</u> <u>7782-49-2</u> <u>7440-22-4</u> <u>NA</u>	<u>7440-43-9</u> <u>7440-47-3</u> <u>7439-92-1</u> <u>7439-97-6</u>	<u>sludge from the pr</u> 7440-36-0 7440-38-2 7440-39-3 7440-41-7	<u>from coking operat</u> <u>71-43-2</u> <u>50-32-8</u> <u>91-20-3</u> <u>108-95-2</u> <u>57-12-5</u>	<u>7440-47-3</u> <u>57-12-5</u> <u>7439-92-1</u> <u>7440-02-0</u>	$\frac{105-67-9}{100-41-4}$ $\frac{91-20-3}{85-01-8}$ $\frac{108-95-2}{108-88-3}$ $\frac{108-88-3}{1330-20-7}$	106-44-5	<u>50-32-8</u> <u>95-48-7</u> <u>108-39-4</u>	(
dary lead smelting.	<u>finishing operations (</u> <u>C Codes 331 and 332).</u> <u>1</u> <u>2.77</u> <u>1</u> <u>0.69</u> <u>3.98</u>	NA	3.98 NA NA	0.69 2.77 0.69 <u>NA</u>	oduction	<u>operations.</u> 0.14 0.061 0.059 2.0.039 1.2	2.77 1.2 0.69 NA	0.036 0.057 0.059 0.059 0.039 0.32	0.77	<u>0.061</u> 0.11 0.77	
g Calcium	of facilities 0.86 mg/l TCLP 0.37 mg/l TCLP <u>NA</u>		0.16 mg/1 TCLP 0.30 mg/1 TCLP 0.078 mg/1 TCLP TCLP	mg/1 mg/1 5 mg/		<u>10</u> <u>5.6</u> 590	<u>0.86 mg/l TCLP 590 NA 5.0 mg/l TCLP</u>	<u>10</u> <u>5.6</u> <u>30</u>	<u>5.6</u>	<u>5.6</u> 5.6	

<u>Cadmium</u> <u>Lead</u>	<u>7440-43-9</u> 7439-92-1	<u>0.69</u> 0.69	<u>0.19 mg/l TCLP</u> 0.37 mg/l TCLP
<u>K069</u> Emission control dust or slud sulfate (High Lead) Subcatego		lead smelting	Non-Calcium
NA	<u>NA</u>	<u>NA</u>	RLEAD
<u>K071</u> K071 (Brine purification muds production, where separately			
that are residues from RMERC.	preparitied brine	IS NOT USED NOT	IWASCEWALELS
Mercury	7439-97-6	<u>NA</u>	0.20 mg/l TCLP
<u>K071</u>			
K071 (Brine purification muds			
production, where separately that are not residues from RM	prepurified brine	is not used) nor	<u>wastewaters</u>
Mercury	7439-97-6	<u>NA</u>	0.025 mg/1 TCLP
<u>K071</u>			
All K071 wastewaters.	7120-07-6	0.15	ND
Mercury	<u>7439-97-6</u>	0.15	<u>NA</u>
<u>K073</u> Chlorinated hydrocarbon waste process using graphite anodes			e diaphragm cell
Carbon tetrachloride	<u>56-23-5</u>	0.057	6.0
Chloroform	67-66-3	0.046	6.0
Hexachloroethane	67-72-1	0.055	30
<u>Tetrachloroethylene</u> 1,1,1-Trichloroethane	<u>127-18-4</u> 71-55-6	<u>0.058</u> 0.054	6.0
1,1,1-IIICHIOIDechane	11-35-0	0.034	6.0
<u>K083</u>			
Distillation bottoms from ani		0 01	1.4
<u>Aniline</u> Benzene	<u>62-53-3</u> 71-43-2	$\frac{0.81}{0.14}$	<u>14</u> <u>10</u>
Cyclohexanone	$\frac{11}{108-94-1}$	0.36	NA
Diphenylamine	122-39-4	0.92	<u>NA</u> 13
(difficult to			
distinguish from			
<u>diphenylnitrosamine)</u> Diphenylnitrosamine	86-30-6	0.92	13
(difficult to			
distinguish from			
<u>diphenylamine)</u>	00 05 3	0.000	14
<u>Nitrobenzene</u> Phenol	<u>98-95-3</u> 108-95-2	<u>0.068</u> 0.039	$\frac{14}{6.2}$
Nickel	7440-02-0	3.98	5.0 mg/l TCLP
2004			
<u>KO84</u> Wastewater treatment sludges	generated during	the production of	f veterinarv
pharmaceuticals from arsenic			
Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
K085			
Distillation or fractionation	column bottoms f	from the production	on of chloro-
benzenes.			
Benzene	$\frac{71-43-2}{108-90-7}$	0.14	<u>10</u>
<u>Chlorobenzene</u> m-Dichlorobenzene	<u>108-90-7</u> 541-73-1	<u>0.057</u> 0.036	<u>6.0</u> 6.0
	San		

<u>(sum of 0-, m-, and P</u> <u>xylene concentrations)</u> Lead	<u>hk tar sludge</u> <u>hylene</u> <u>hene</u> <u>l,2,3-cd)pyre</u> <u>hrene</u> <u>nrene</u>	<u>(sum or or, m, cano e</u> <u>xylene concentrations)</u> <u>Chromium (Total)</u> <u>Cyanides (Total)</u> <u>Lead</u>	Acetophenone Acetophenone bis(2-Ethylhexyl) phthalate n-Butyl alcohol Butylbenzyl phthalate Cyclohexanone o-Dichlorobenzene Diethyl phthalate Dimethyl phthalate Di-n-butyl phthalate Di-n-octyl phthalate Ethyl acetate Ethyl acetate Methyl ethyl ketone Methyl isobutyl ketone Methyl isobutyl ketone Methylene chloride Nitrobenzene Toluene 1,1,1-Trichloroethane Xylenes-mixed isomers	tes and sludges, <u>m cleaning tubs</u> riers, scaps, an	benzene 1,2,4-Trichlorobenzene	or all Aroclors) Pentachlorobenzene 1,2,4,5-Tetrachloro-	<u>o-Dichlorobenzene</u> <u>p-Dichlorobenzene</u> <u>Hexachlorobenzene</u> <u>Total PCBs</u> Jaum of all PCB isomers.
<u>7439-92-1</u>	$\frac{from \ coking \ operations.}{208-96-8} \\ \frac{208-96-8}{218-01-9} \\ \frac{218-01-9}{206-44-0} \\ \frac{91-20-3}{85-01-8} \\ \frac{85-01-8}{108-88-3} \\ \frac{1330-20-7}{9} \\ \frac{91}{9} \\ \frac{1330-20-7}{20-7} \\ \frac{91}{9} \\$	<u>7440-47-3</u> <u>57-12-5</u> 7439-92-1	$\begin{array}{r} 96-86-2\\ 117-81-7\\ 71-36-3\\ 85-68-7\\ 108-94-1\\ 95-50-1\\ 84-66-2\\ 131-11-3\\ 84-74-2\\ 117-84-0\\ 141-78-6\\ 100-41-4\\ 67-56-1\\ 78-93-3\\ 108-10-1\\ 75-09-2\\ 91-20-3\\ 98-95-3\\ 108-88-3\\ 71-55-6\\ 1330-20-7\end{array}$	caustic washes nd equipment us stabilizers co <u>67-64-1</u>	120-82-1	<u>608-93-5</u> 95-94-3	<u>95-50-1</u> <u>106-46-7</u> <u>118-74-1</u> <u>1336-36-3</u>
0.69	<u>itions.</u> 0.059 0.14 0.059 0.068 0.059 0.059 0.059 0.059 0.059 0.32	$\frac{2.77}{1.2}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	and sludges, or sed in the formul ontaining chromiu	0.055	0.055	0.088 0.090 0.10 0.10
0.37 mg/1 TCLP	$\frac{3 \cdot 3}{3 \cdot 4}$	0.86 mg/1 TCLP 590 0.37 mg/1 TCLP	30000000000000000000000000000000000000	es, or water washes and s formulation of ink from chromium and lead. <u>160</u> 9.7	<u>19</u>	<u>10</u> <u>14</u>	<u>1000000000000000000000000000000000000</u>

<u>K093</u> Distillation light ends from the production of phthalic anhydride from ortho-

xylene. <u>Phthalic anhydride</u> <u>(measured as Phthalic</u> <u>acid or erephthalic</u> <u>acid)</u> <u>Phthalic anhydride</u> <u>K094</u> Distillation bottoms from the	<u>100-21-0</u> <u>85-44-9</u>	0.055 0.055	<u>28</u> <u>28</u>
xylene.	production of ph	charic annyuride	ITOM OFCHO-
Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28
Phthalic anhydride	85-44-9	0.055	<u>28</u>
¥005			
<u>K095</u> Distillation bottoms from the	production of 1.	1.1-trichloroetha	ine.
Hexachloroethane	67-72-1	0.055	30
Pentachloroethane	76-01-7	0.055	6.0
1,1,1,2-Tetrachloro-	630-20-6	0.057	6.0
ethane	000 20 0	<u> </u>	<u> </u>
1,1,2,2-Tetrachloro-	79-34-6	0.057	6.0
	13-34-0	0.057	0.0
ethane	107 10 4	0.056	6.0
Tetrachloroethylene	$\frac{127 - 18 - 4}{72}$	0.056	<u>6.0</u>
1,1,2-Trichloroethane	<u>79-00-5</u>	0.054	6.0
Trichloroethylene	<u>79-01-6</u>	0.054	6.0
Heavy ends from the heavy end ethane. <u>m-Dichlorobenzene</u> <u>Pentachloroethane</u> <u>1,1,1,2-Tetrachloro-</u> <u>ethane</u> <u>1,1,2,2-Tetrachloro-</u> <u>ethane</u> <u>Tetrachloroethylene</u> <u>1,2,4-Trichlorobenzene</u> <u>1,1,2-Trichloroethane</u> <u>Trichloroethylene</u> <u>K097</u>	$\frac{541-73-1}{76-01-7}$ $\frac{630-20-6}{79-34-6}$ $\frac{127-18-4}{120-82-1}$ $\frac{79-00-5}{79-01-6}$	$ \begin{array}{r} 0.036 \\ 0.055 \\ 0.057 \\ 0.057 \\ 0.056 \\ 0.055 \\ 0.054 \\ 0.054 \\ 0.054 \\ \end{array} $	$ \begin{array}{r} 6.0 \\ \overline{6.0} \\ 6.0 \\ \overline{6.0} \\ \overline{19} \\ \overline{6.0} \\ \overline{6.0} \\ \overline{5.0} \\ \overline{6.0} \\ \overline{5.0} \end{array} $
Vacuum stripper discharge fro chlordane.	om the chlordane of	chlorinator in the	e production of
<u>Chlordane (alpha and gamma isomers)</u>	57-74-9	0.0033	0.26
<u>Heptachlor</u>	<u>76-44-8</u>	<u>0.0012</u>	0.066
Heptachlor epoxide	1024-57-3	0.016	0.068
Hexachlorocyclopenta-	77-47-4	0.057	2.4
diene	and an and a second description of the second s		
<u>K098</u> <u>Untreated process wastewater</u> <u>Toxaphene</u>	from the product. 8001-35-2	ion of toxaphene. 0.0095	2.6
<u>K099</u>			
Untreated wastewater from the	production of 2	4-D.	
2,4-Dichlorophenoxy-	94-75-7	0.72	10
acetic acid			
	NT D	0.000063	0.001
HxCDDs (All Hexachloro- dibenzo-p-dioxins)	NA	0.000063	<u>0.001</u>

<u>HxCDFs (All Hexachloro-</u> dibenzofurans)	NA	0.000063	0.001
<u>PeCDDs (All Pentachloro- dibenzo-p-dioxins)</u>	NA	0.000063	0.001
PecDFs (All Pentachloro- dibenzofurans)	NA	0.000035	0.001
TCDDs (All Tetrachloro-	NA	0.000063	0.001
<u>dibenzo-p-dioxins)</u> TCDFs (All Tetrachloro- dibenzofurans)	<u>NA</u>	0.000063	0.001
<u>K100</u> Waste leaching solution from	acid leaching of	emission control	dust or sludge
from secondary lead smelting.			
Cadmium	7440-43-9	0.69	0.19 mg/l TCLP
Chromium (Total)	7440-47-3	2.77	0.86 mg/1 TCLP
Lead	7439-92-1	0.69	0.37 mg/1 TCLP
<u>K101</u> Distillation tar residues fro the production of veterinary compounds.	pharmaceuticals		<u>rgano-arsenic</u>
o-Nitroaniline	88-74-4	0.27	<u>14</u>
Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
Cadmium	7440-43-9	0.69	NA
Lead	7439-92-1	0.69	NA
Mercury	<u>7439-97-6</u>	0.15	NA
Residue from the use of active of veterinary pharmaceuticals o-Nitrophenol Arsenic Cadmium Lead Mercury			
<u>K103</u>	. .		c
Process residues from aniline			
Aniline	<u>62-53-3</u> 71-43-2	<u>0.81</u> 0.14	<u>14</u> 10
<u>Benzene</u> 2,4-Dinitrophenol	<u>71-43-2</u> 51-28-5		112
Z.4-UINITTODNENGI		0 10	100
		0.12	<u>160</u>
Nitrobenzene	98-95-3	0.068	<u>160</u> 14
<u>Nitrobenzene</u> <u>Phenol</u>		**************************************	<u>160</u>
Nitrobenzene Phenol K104	<u>98-95-3</u> 108-95-2	<u>0.068</u> 0.039	<u>160</u> <u>14</u> <u>6.2</u>
<u>Nitrobenzene</u> <u>Phenol</u> <u>K104</u> <u>Combined wastewater streams c</u>	<u>98-95-3</u> <u>108-95-2</u> generated from ni	0.068 0.039 trobenzene or ani	160 14 6.2 line production.
Nitrobenzene Phenol K104	<u>98-95-3</u> <u>108-95-2</u> generated from ni <u>62-53-3</u>	0.068 0.039 trobenzene or ani 0.81	<u>160</u> <u>14</u> <u>6.2</u> <u>line production.</u> <u>14</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene	<u>98-95-3</u> <u>108-95-2</u> generated from ni <u>62-53-3</u> <u>71-43-2</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14	<u>160</u> <u>14</u> <u>6.2</u> <u>14</u> <u>14</u> <u>10</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline	<u>98-95-3</u> <u>108-95-2</u> generated from ni <u>62-53-3</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14 0.12	<u>160</u> <u>14</u> <u>6.2</u> <u>14</u> <u>14</u> <u>10</u> <u>160</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol	<u>98-95-3</u> <u>108-95-2</u> generated from ni <u>62-53-3</u> <u>71-43-2</u> <u>51-28-5</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14 0.12 0.068	<u>160</u> <u>14</u> <u>6.2</u> <u>14</u> <u>14</u> <u>10</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene	<u>98-95-3</u> <u>108-95-2</u> <u>renerated from ni</u> <u>62-53-3</u> <u>71-43-2</u> <u>51-28-5</u> <u>98-95-3</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14 0.12	<u>160</u> <u>14</u> <u>6.2</u> <u>14</u> <u>14</u> <u>10</u> <u>160</u> <u>14</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol Cyanides (Total) ⁷	<u>98-95-3</u> <u>108-95-2</u> <u>108-95-2</u> <u>62-53-3</u> <u>71-43-2</u> <u>51-28-5</u> <u>98-95-3</u> <u>108-95-2</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14 0.12 0.068 0.039	<u>160</u> <u>14</u> <u>6.2</u> <u>14</u> <u>14</u> <u>10</u> <u>160</u> <u>14</u> <u>6.2</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol Cyanides (Total) ⁷ K105	<u>98-95-3</u> <u>108-95-2</u> <u>108-95-2</u> <u>62-53-3</u> <u>71-43-2</u> <u>51-28-5</u> <u>98-95-3</u> <u>108-95-2</u> <u>57-12-5</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14 0.12 0.068 0.039 1.2	<u>160</u> <u>14</u> <u>6.2</u> line production. <u>14</u> <u>10</u> <u>160</u> <u>14</u> <u>6.2</u> <u>590</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol Cyanides (Total) ⁷ K105 Separated aqueous stream from	<u>98-95-3</u> <u>108-95-2</u> <u>108-95-2</u> <u>62-53-3</u> <u>71-43-2</u> <u>51-28-5</u> <u>98-95-3</u> <u>108-95-2</u> <u>57-12-5</u> <u>n the reactor pro</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14 0.12 0.068 0.039 1.2	<u>160</u> <u>14</u> <u>6.2</u> line production. <u>14</u> <u>10</u> <u>160</u> <u>14</u> <u>6.2</u> <u>590</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol Cyanides (Total) ⁷ K105 Separated aqueous stream from production of chlorobenzenes.	<u>98-95-3</u> <u>108-95-2</u> <u>108-95-2</u> <u>62-53-3</u> <u>71-43-2</u> <u>51-28-5</u> <u>98-95-3</u> <u>108-95-2</u> <u>57-12-5</u> <u>n the reactor pro</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14 0.12 0.068 0.039 1.2 duct washing ster	<u>160</u> <u>14</u> <u>6.2</u> line production. <u>14</u> <u>10</u> <u>160</u> <u>14</u> <u>6.2</u> <u>590</u> o in the
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol Cyanides (Total) ⁷ K105 Separated aqueous stream from production of chlorobenzenes. Benzene	<u>98-95-3</u> <u>108-95-2</u> <u>108-95-2</u> <u>62-53-3</u> <u>71-43-2</u> <u>51-28-5</u> <u>98-95-3</u> <u>108-95-2</u> <u>57-12-5</u> <u>n the reactor pro</u> <u>71-43-2</u>	<u>0.068</u> 0.039 trobenzene or ani 0.81 0.14 0.12 0.068 0.039 1.2 duct washing ster 0.14	<u>160</u> <u>14</u> <u>6.2</u> line production. <u>14</u> <u>10</u> <u>160</u> <u>14</u> <u>6.2</u> <u>590</u> o in the <u>10</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol Cyanides (Total) ⁷ K105 Separated aqueous stream from production of chlorobenzenes. Benzene Chlorobenzene	$\frac{98-95-3}{108-95-2}$ generated from ni 62-53-3 71-43-2 51-28-5 98-95-3 108-95-2 57-12-5 n the reactor pro 71-43-2 108-90-7	<u>0.068</u> 0.039 <u>0.039</u> <u>0.81</u> 0.14 0.12 0.068 0.039 1.2 duct washing ster 0.14 0.057	<u>160</u> <u>14</u> <u>6.2</u> line production. <u>14</u> <u>10</u> <u>160</u> <u>14</u> <u>6.2</u> <u>590</u> o in the <u>10</u> <u>6.0</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol Cyanides (Total) ⁷ K105 Separated aqueous stream from production of chlorobenzenes. Benzene Chlorobenzene 2-Chlorophenol	$\frac{98-95-3}{108-95-2}$ generated from ni 62-53-3 71-43-2 51-28-5 98-95-3 108-95-2 57-12-5 n the reactor pro 71-43-2 108-90-7 95-57-8	<u>0.068</u> 0.039 <u>0.039</u> <u>0.81</u> 0.14 0.12 0.068 0.039 1.2 duct washing step 0.14 0.057 0.044	<u>160</u> <u>14</u> <u>6.2</u> line production. <u>14</u> <u>10</u> <u>160</u> <u>14</u> <u>6.2</u> <u>590</u> o in the <u>10</u> <u>6.0</u> <u>5.7</u>
Nitrobenzene Phenol K104 Combined wastewater streams of Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol Cyanides (Total) ⁷ K105 Separated aqueous stream from production of chlorobenzenes. Benzene Chlorobenzene	$\frac{98-95-3}{108-95-2}$ generated from ni 62-53-3 71-43-2 51-28-5 98-95-3 108-95-2 57-12-5 n the reactor pro 71-43-2 108-90-7	<u>0.068</u> 0.039 <u>0.039</u> <u>0.81</u> 0.14 0.12 0.068 0.039 1.2 duct washing ster 0.14 0.057	<u>160</u> <u>14</u> <u>6.2</u> line production. <u>14</u> <u>10</u> <u>160</u> <u>14</u> <u>6.2</u> <u>590</u> o in the <u>10</u> <u>6.0</u>

0.039 108-95-2 Phenol 6.2 2,4,5-Trichlorophenol 95-95-4 0.18 7.4 2,4,6-Trichlorophenol 88-06-2 0.035 K106 K106 (wastewater treatment sludge from the mercury cell process in chlorine production) nonwastewaters that contain greater than or equal to 260 mg/kg total mercury. Mercury 7439-97-6 NA RMERC K106 K106 (wastewater treatment sludge from the mercury cell process in chlorine production) nonwastewaters that contain less than 260 mg/kg total mercury that are residues from RMERC. 7439-97-6 Mercury NA 0.20 mg/l TCLP K106 Other K106 nonwastewaters that contain less than 260 mg/kg total mercury and are not residues from RMERC. 7439-97-6 0.025 mg/1 Mercury NA TCLP K106 All K106 wastewaters. 7439-97-6 0.15 Mercury NA K107 Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides. INCIN; or NA NA INCIN CHOXD fb CARBN; or BIODG fb CARBN <u>K108</u> Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides. INCIN; or INCIN NA NA CHOXD fb CARBN; or BIODG fb CARBN K109 Spent filter cartridges from product purification from the production of 1,1dimethylhydrazine (UDMH) from carboxylic acid hydrazides. <u>NA</u> NA INCIN; or INCIN CHOXD fb CARBN; or BIODG fb CARBN

<u>K110</u>

Con	densed column overh	neads from in	ntermediate	separation	from t	the production	ı of
1,1	-dimethylhydrazine	(UDMH) from	carboxylic	acid hydraz	zides.		
	NA	NA		INCIN; or		INCIN	
				CHOXD fb			
				CARBN; or			
				BIODG fb	CARBN		

<u>K111</u>

Product washwaters from the production of dinitrotoluene via nitration of toluene

2,4-Dinitrotoluene 2,6-Dinitrotoluene	<u>121-1-1</u> 606-20-2	<u>0.32</u> 0.55	<u>140</u> <u>28</u>
<u>K112</u> <u>Reaction by-product water fro</u> <u>toluenediamine via hydrogenat</u> <u>NA</u>		<u>uene.</u> INCIN; or	ion of INCIN
		<u>CHOXD fb</u> <u>CARBN; or</u> <u>BIODG fb CARBN</u>	
<u>K113</u> Condensed liquid light ends f	rom the purificat	ion_of_toluenedia	mine in the
production of toluenediamine <u>NA</u>	via hydrogenatior <u>NA</u>	n of dinitrotoluer <u>CARBN; or</u> INCIN	<u>CMBST</u>
<u>K114</u> <u>Vicinals from the purification to luenediamine via hydrogenate</u>	on of toluenediami	ne in the product	ion of
NA	NA	CARBN; or INCIN	CMBST
<u>K115</u> Heavy ends from the purificat	ion of toluenedia	mine in the produ	uction of
toluenediamine via hydrogenat	ion of dinitroto	luene.	
<u>Nickel</u> <u>NA</u>	<u>7440-02-0</u> <u>NA</u>	<u>3.98</u> CARBN; or INCIN	5.0 mg/l TCLP CMBST
77116			
<u>K116</u> <u>Organic condensate from the s</u>			duction of
Organic condensate from the s toluene diisocyanate via phos	sgenation of tolue	enediamine.	
Organic condensate from the s			duction of CMBST
Organic condensate from the s toluene diisocyanate via phos <u>NA</u> K117	<u>sqenation of tolus</u> <u>NA</u>	enediamine. CARBN; or INCIN	<u>CMBST</u>
Organic condensate from the <u>s</u> toluene diisocyanate via phos <u>NA</u>	<u>NA</u> NA vent gas scrubber	enediamine. CARBN; or INCIN	<u>CMBST</u>
Organic condensate from the methods toluene diisocyanate via phose NA K117 Wastewater from the reactor via bromination of dibromide via bromination of Methyl bromide (Bromo-	<u>NA</u> NA vent gas scrubber	enediamine. CARBN; or INCIN	<u>CMBST</u>
Organic condensate from the methane) Chloroform Ethylene dibromide (1,2-	NA NA Vent gas scrubber ethene.	enediamine. CARBN; or INCIN in the production	<u>CMBST</u> n of ethylene
Organic condensate from the methodtoluene diisocyanate via phoseNAK117Wastewater from the reactor via dibromide via bromination ofMethyl bromide (Bromo-methane)ChloroformEthylene dibromide (1,2-Dibromoethane)	NA NA Vent gas scrubber ethene. 74-83-9 67-66-3	enediamine. <u>CARBN; or</u> <u>INCIN</u> in the production <u>0.11</u> <u>0.046</u>	<u>CMBST</u> n of ethylene <u>15</u>
Organic condensate from the stoluene diisocyanate via phose NA K117 Wastewater from the reactor via dibromide via bromination of Methyl bromide (Bromo-methane) Chloroform Ethylene dibromide (1,2-Dibromoethane) K118 Spent absorbent solids from provide solids	<u>NA</u> <u>NA</u> <u>ent gas scrubber</u> <u>ethene.</u> <u>74-83-9</u> <u>67-66-3</u> <u>106-93-4</u> purification of et	enediamine. <u>CARBN; or</u> <u>INCIN</u> in the production <u>0.11</u> <u>0.046</u> <u>0.028</u> chylene dibromide	<u>CMBST</u> n of ethylene <u>15</u> <u>6.0</u> <u>15</u>
Organic condensate from the sector with the sec	<u>NA</u> <u>NA</u> <u>ent gas scrubber</u> <u>ethene.</u> <u>74-83-9</u> <u>67-66-3</u> <u>106-93-4</u> purification of et	enediamine. <u>CARBN; or</u> <u>INCIN</u> in the production <u>0.11</u> <u>0.046</u> <u>0.028</u> chylene dibromide	<u>CMBST</u> n of ethylene <u>15</u> <u>6.0</u> <u>15</u>
Organic condensate from the stoluene diisocyanate via phose NA K117 Wastewater from the reactor via dibromide via bromination of Methyl bromide (Bromo-methane) Chloroform Ethylene dibromide (1,2-Dibromoethane) K118 Spent absorbent solids from production of ethylene dibrom Methyl bromide (Bromo-methane)	<u>NA</u> <u>vent gas scrubber</u> <u>ethene.</u> <u>74-83-9</u> <u>67-66-3</u> <u>106-93-4</u> <u>burification of ethene</u>	enediamine. <u>CARBN; or</u> <u>INCIN</u> in the production <u>0.11</u> <u>0.046</u> <u>0.028</u> chylene dibromide ion of ethene. <u>0.11</u>	<u>CMBST</u> n of ethylene <u>15</u> <u>6.0</u> <u>15</u> in the <u>15</u>
Organic condensate from the sector with the sec	vent gas scrubber ethene. 74-83-9 <u>67-66-3</u> 106-93-4 purification of etheniats 74-83-9	enediamine. <u>CARBN; or</u> <u>INCIN</u> in the production <u>0.11</u> <u>0.046</u> <u>0.028</u> chylene dibromide ion of ethene.	<u>CMBST</u> n of ethylene <u>15</u> <u>6.0</u> <u>15</u> in the
NA K117 Wastewater from the reactor v dibromide via bromination of Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K118 Spent absorbent solids from r production of ethylene dibrom Methyl bromide (Bromo- methane) K118 Spent absorbent solids from r production of ethylene dibrom Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K123 Process wastewater (including	<pre>sqenation of tolus NA vent gas scrubber ethene. 74-83-9 67-66-3 106-93-4 ourification of et nide via brominat: 74-83-9 67-66-3 106-93-4 supernates, filt</pre>	enediamine. <u>CARBN; or</u> <u>INCIN</u> in the production <u>0.11</u> <u>0.046</u> <u>0.028</u> chylene dibromide <u>0.11</u> <u>0.046</u> <u>0.11</u> <u>0.046</u> <u>0.028</u> crates, and washwashwashwashwashwashwashwashwashwash	$\frac{\text{CMBST}}{15}$ $\frac{15}{15}$ $\frac{6.0}{15}$ $\frac{15}{15}$ $\frac{6.0}{15}$
Organic condensate from the stoluene diisocyanate via phose NA K117 Wastewater from the reactor via dibromide via bromination of Methyl bromide (Bromo-methane) Chloroform Ethylene dibromide (1,2-Dibromoethane) K118 Spent absorbent solids from production of ethylene dibrom Methyl bromide (Bromo-methane) Chloroform Ethylene dibromide (1,2-Dibromoethane) K118 Spent absorbent solids from production of ethylene dibrom Methyl bromide (Bromo-methane) Chloroform Ethylene dibromide (1,2-Dibromoethane) K123	<pre>sqenation of tolus NA vent gas scrubber ethene. 74-83-9 67-66-3 106-93-4 ourification of et nide via brominat: 74-83-9 67-66-3 106-93-4 supernates, filt</pre>	enediamine. <u>CARBN; or</u> <u>INCIN</u> in the production <u>0.11</u> <u>0.046</u> <u>0.028</u> chylene dibromide <u>0.11</u> <u>0.046</u> <u>0.11</u> <u>0.046</u> <u>0.028</u> crates, and washwashwashwashwashwashwashwashwashwash	$\frac{\text{CMBST}}{15}$ $\frac{15}{15}$ $\frac{6.0}{15}$ $\frac{15}{15}$ $\frac{6.0}{15}$

acid and its salts.			
NA	<u>NA</u>	INCIN; or	INCIN
		CHOXD fb	
		(BIODG or	
		CARBN)	
<u>K125</u> Filtration, evaporation, and	centrifugation	and a from the	production of
ethylenebisdithiocarbamic ac			produceron or
NA	NA	INCIN; or	INCIN
		<u>CHOXD fb</u>	
		(BIODG or	
		<u>CARBN)</u>	
K126			
Baghouse dust and floor swee	pings in milli	ng and pachaging o	operations from t
production or formulation of NA	<u>ethylenebisdi</u> NA	<u>incinic acid</u> INCIN; or	and its salts. INCIN
<u>NA</u>	MA	CHOXD fb	INCIN
		(BIODG or	
		<u>CARBN)</u>	
(131			
Wastewater from the reactor the production of methyl bro	and spent sulf	uric acid from the	e acid dryer from
Methyl bromide (Bromo-	74-83-9	0.11	15
methane)	14-03-9	0.11	12
mechanej			
<u>promide.</u> <u>Methyl bromide (Bromo-</u> methane)	74-83-9	0.11	<u>15</u>
<u>me chane /</u>			
		,. ,	
Still bottoms from the purif			the production
Still bottoms from the purit sthylene dibromide via bromi	ination of ethe	ne.	
Still bottoms from the purif ethylene dibromide via bromi Methyl bromide (Bromo-			<u>the production</u>
Still bottoms from the purif ethylene dibromide via bromi Methyl bromide (Bromo- methane)	ination of ethe 74-83-9	<u>0.11</u>	<u>15</u>
Still bottoms from the purified thylene dibromide via bromi Methyl bromide (Bromo- methane) Chloroform	<u>ination of ethe</u> <u>74-83-9</u> <u>67-66-3</u>	<u>0.11</u> 0.046	<u>15</u> 6.0
Still bottoms from the purify ethylene dibromide via bromi Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2-	<u>ination of ethe</u> <u>74-83-9</u> <u>67-66-3</u>	<u>0.11</u>	<u>15</u>
Still bottoms from the purified thylene dibromide via bromi Methyl bromide (Bromo- methane) Chloroform	<u>ination of ethe</u> <u>74-83-9</u> <u>67-66-3</u>	<u>0.11</u> 0.046	<u>15</u> 6.0
Still bottoms from the purify athylene dibromide via bromide Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141	<u>104-83-9</u> 74-83-9 <u>67-66-3</u> 106-93-4	<u>0.11</u> 0.046 0.028	<u>15</u> 6.0 15
Still bottoms from the purify athylene dibromide via bromidy Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141 Process residues from the residues	<u>104-83-9</u> <u>67-66-3</u> <u>106-93-4</u> ecovery of coal	ne. 0.11 0.046 0.028 tar, including, 1	$\frac{15}{15}$
Still bottoms from the purify athylene dibromide via bromidy Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141 Process residues from the re- collecting sump residues from	<u>67-66-3</u> <u>106-93-4</u> <u>106-93-4</u>	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the	15 6.0 15 put not limited t recovery of coke
Still bottoms from the purify ethylene dibromide via bromid Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141 Process residues from the re- collecting sump residues from by-products produced from co	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the production oal. This list	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the	15 6.0 15 put not limited t recovery of coke
Still bottoms from the purify ethylene dibromide via bromid Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141 Process residues from the re- collecting sump residues from by-products produced from co	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the production oal. This list	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the	15 6.0 15 put not limited t recovery of coke
Still bottoms from the purify ethylene dibromide via bromid Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane)K141 Process residues from the residues from costing sump residues from costing Benzene	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the producti <u>operations).</u> <u>71-43-2</u>	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the ing does not including 0.14	<u>15</u> <u>6.0</u> <u>15</u> put not limited t recovery of coke ade K087 (decante
Still bottoms from the purify athylene dibromide via bromide Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141 Process residues from the residues from collecting sump residues from tank tar sludge from coking Benzene Benz(a)anthracene	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the producti <u>oal. This list</u> <u>operations).</u> <u>71-43-2</u> <u>56-55-3</u>	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the ing does not inclu 0.14 0.059	<u>15</u> <u>6.0</u> <u>15</u> put not limited t recovery of coke ade K087 (decante
Still bottoms from the purify ethylene dibromide via bromid Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane)K141 Process residues from the residues from the residues from the residues from the residues from collecting sump residues from collecting produced from collecting benzene Benzene Benz(a)anthracene Benzo(a)pyrene	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the producti <u>oal. This list</u> <u>operations).</u> <u>71-43-2</u> <u>56-55-3</u> <u>50-2-8</u>	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the ing does not inclu 0.14 0.059 0.061	15 6.0 15 put not limited t recovery of coke ade K087 (decante
Still bottoms from the purify ethylene dibromide via bromide Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141 Process residues from the residues from by-products produced from costing benzene Benzene Benz(a) anthracene Benzo(b) fluoranthene	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the producti <u>oal. This list</u> <u>operations).</u> <u>71-43-2</u> <u>56-55-3</u>	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the ing does not inclu 0.14 0.059	15 6.0 15 put not limited t recovery of coke ade K087 (decante
Still bottoms from the purify ethylene dibromide via bromide Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141 Process residues from the residues from the residues from the residues from coking bp-products produced from coking Benzene Benz(a) anthracene Benzo(b) fluoranthene (difficult to	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the producti <u>oal. This list</u> <u>operations).</u> <u>71-43-2</u> <u>56-55-3</u> <u>50-2-8</u>	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the ing does not inclu 0.14 0.059 0.061	<u>15</u> <u>6.0</u> <u>15</u> put not limited t recovery of coke ade K087 (decante
Still bottoms from the purify ethylene dibromide via bromide Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) K141 Process residues from the residues from the residues from the residues from costing benzene Benzene Benzo(a)anthracene Benzo(b)fluoranthene (difficult to distinguish from benzo-	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the producti <u>oal. This list</u> <u>operations).</u> <u>71-43-2</u> <u>56-55-3</u> <u>50-2-8</u>	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the ing does not inclu 0.14 0.059 0.061	<u>15</u> <u>6.0</u> <u>15</u> put not limited t recovery of coke ade K087 (decante
Still bottoms from the purify ethylene dibromide via bromid Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane)K141 Process residues from the residues from the residues from the residues from the residues from collecting sump residues from collecting sump residues from collecting benzoure from coking Benzene Benz(a) anthracene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene)	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u>	<u>0.11</u> <u>0.046</u> <u>0.028</u> <u>tar, including, 1</u> <u>on of coke or the</u> <u>ing does not including</u> <u>0.14</u> <u>0.059</u> <u>0.061</u> <u>0.11</u>	<u>15</u> <u>6.0</u> <u>15</u> <u>but not limited t</u> <u>recovery of coke</u> <u>ide K087 (decante</u> <u>10</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>6.8</u>
Still bottoms from the purify ethylene dibromide via bromid Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane)K141 Process residues from the residues from the residues from the residues from the residues from collecting sump residues from coulecting sump residues from collecting sump residues from collecting benze Benzene Benze(a) anthracene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>ecovery of coal</u> om the producti <u>oal. This list</u> <u>operations).</u> <u>71-43-2</u> <u>56-55-3</u> <u>50-2-8</u>	ne. 0.11 0.046 0.028 tar, including, 1 on of coke or the ing does not inclu 0.14 0.059 0.061	15 6.0 15 put not limited t recovery of coke ade K087 (decante
Still bottoms from the purify ethylene dibromide via bromid Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane)K141 Process residues from the residues from the residues from the residues from the residues from coking Benzene Benz(a) anthracene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene (difficult to	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u>	<u>0.11</u> <u>0.046</u> <u>0.028</u> <u>tar, including, 1</u> <u>on of coke or the</u> <u>ing does not including</u> <u>0.14</u> <u>0.059</u> <u>0.061</u> <u>0.11</u>	<u>15</u> <u>6.0</u> <u>15</u> <u>but not limited t</u> <u>recovery of coke</u> <u>ide K087 (decante</u> <u>10</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>6.8</u>
Still bottoms from the purify ethylene dibromide via bromid Methyl bromide (Bromo- methane) Chloroform Ethylene dibromide (1,2- Dibromoethane)K141 Process residues from the residues from the residues from the residues from the residues from collecting sump residues from tank tar sludge from coking Benzene Benzo(a)anthracene Benzo(b)fluoranthene (difficult to distinguish from benzo- (k)fluoranthene (difficult to distinguish from benzo- (k)fluoranthene (difficult to distinguish from benzo-	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u>	<u>0.11</u> <u>0.046</u> <u>0.028</u> <u>tar, including, 1</u> <u>on of coke or the</u> <u>ing does not including</u> <u>0.14</u> <u>0.059</u> <u>0.061</u> <u>0.11</u>	<u>15</u> <u>6.0</u> <u>15</u> <u>but not limited t</u> <u>recovery of coke</u> <u>ide K087 (decante</u> <u>10</u> <u>3.4</u> <u>3.4</u> <u>3.4</u> <u>6.8</u>
<pre>methane) Chloroform Ethylene dibromide (1,2- Dibromoethane) X141 Process residues from the residues from by-products produced from cost tank tar sludge from costing Benzene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo- (k)fluoranthene) Benzo(k)fluoranthene (difficult to</pre>	<u>67-66-3</u> <u>67-66-3</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u> <u>106-93-4</u>	<u>0.11</u> <u>0.046</u> <u>0.028</u> <u>tar, including, 1</u> <u>on of coke or the</u> <u>ing does not including</u> <u>0.14</u> <u>0.059</u> <u>0.061</u> <u>0.11</u>	15 6.0 15 put not limited t recovery of coke ade K087 (decante 10 3.4 3.4 6.8

<u>Dibenz(a,h)anthracene</u> Indeno(1,2,3-cd)pyrene	<u>53-70-3</u> 193-39-5	0.055 0.0055	<u>8.2</u> <u>3.4</u>
<u>K142</u> Tar storage tank residues f:	rom_the product	ion of coke from	n coal or from the
recovery of coke by-product			
Benzene	71-43-2	0.14	<u>10</u>
Benz(a) anthracene	56-55-3	0.059	3.4
Benzo(a)pyrene	50-32-8	0.061	3.4
Benzo(b)fluoranthene	205-99-2	0.11	<u>3.4</u> <u>6.8</u>
(difficult to	·		
distinguish from benzo-			
(k)fluoranthene)			
Benzo(k)fluoranthene	207-08-9	0.11	6.8
(difficult to			
distinguish from benzo-			
(b)fluoranthene)			
Chrysene	218-01-9	0.059	3.4
Dibenz(a,h)anthracene	53-70-3	0.055	8.2
Ideno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4
<u>K143</u> Process residues from the r to, those generated in stil recovery of coke by-product	ls, decanters,	and wash oil real	
Benzene	71-43-2	0.14	10
Benz(a)anthracene	56-55-3	0.059	3.4
Benzo(a)pyrene	50-32-8	0.061	$\frac{3.4}{3.4}$
Benzo(b)fluoranthene	205-99-2	0.11	6.8
(difficult to			
distinguish from benzo-			
(k)fluoranthene)			
Benzo(k)fluoranthene	207-08-9	0.11	<u>6.8</u>
(difficult to			
distinguish from benzo-			
(b)fluoranthene)			
Chrysene	218-01-9	0.059	3.4
K144			
	om light oil re	fining, includi	ng, but not limited
<u>K144</u> <u>Wastewater sump residues fr</u>			

to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.

roducts produced from coal.			
Benzene	<u>71-43-2</u>	0.14	<u>10</u>
Benz(a)anthracene	<u>56-55-3</u>	0.059	3.4
Benzo(a)pyrene	50-32-8	0.061	3.4
Benzo(b)fluoranthene	<u>205-99-2</u>	0.11	6.8
(difficult to			
distinguish from benzo-			
(k)fluoranthene)			
Benzo(k)fluoranthene	<u>207-08-9</u>	0.11	6.8
(difficult to			
distinguish from benzo-			
(b)fluoranthene)			
Chrysene	<u>218-01-9</u>	0.059	<u>3.4</u>
Dibenz(a,h)anthracene	<u>53-70-3</u>	0.055	8.2

<u>K145</u> <u>Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.</u>

r coke by-products produced	from coal.		
Benzene	71-43-2	0.14	<u>10</u>
Benz(a)anthracene	<u>56-55-3</u>	0.059	3.4
Benzo(a)pyrene	50-32-8	0.061	3.4

<u>Chrysene</u> <u>Dibenz(a,h)anthracene</u> <u>Naphthalene</u>	<u>218-01-9</u> <u>53-70-3</u> 91-20-3	<u>0.059</u> 0.055 0.059	<u>3.4</u> <u>6.2</u> <u>5.6</u>
K147			
Tar storage tank residues fro			
Benzene	<u>71-43-2</u>	0.14	<u>10</u> <u>3.4</u> <u>3.4</u> <u>6.8</u>
<u>Benz(a)anthracene</u>	<u>56-55-3</u>	0.059	3.4
Benzo(a)pyrene	50-32-8	0.061	3.4
Benzo(b)fluoranthene	205-99-2	0.11	6.8
(difficult to			
distinguish from benzo-			
(k)fluoranthene)		0.11	C 0
Benzo(k)fluoranthene	<u>207-08-9</u>	0.11	6.8
(difficult to			
distinguish from benzo-			
(b)fluoranthene)	218-01-0	0.059	5 A
<u>Chrysene</u> Dibenz(a,h)anthracene	<u>218-01-9</u> 53-70-3	0.055	3.4 9.7
Indeno(1,2,3-cd)pyrene	<u>193-39-5</u>	0.0055	<u>3.4</u> <u>8.2</u> <u>3.4</u>
Indeno(1,2,3 cd)pyrene	<u> </u>	0.0000	2.4
K148			
Residues from coal tar disti			
Residues IIOM COal cal dist.	llation, includin	q, but not limite	d to, still
	llation, includin	g, but not limite	d to, still
bottoms. Benz(a)anthracene	<u>11ation, includin</u> <u>56-55-3</u>	<u>g, but not limite</u> <u>0.059</u>	3.4
bottoms.			3.4
<u>bottoms.</u> <u>Benz(a)anthracene</u>	<u>56-55-3</u>	0.059	<u>d to, still</u> <u>3.4</u> <u>3.4</u> <u>6.8</u>
<u>bottoms.</u> <u>Benz(a)anthracene</u> <u>Benzo(a)pyrene</u>	<u>56-55-3</u> 50-32-8	<u>0.059</u> 0.061	3.4
bottoms. Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo-	<u>56-55-3</u> 50-32-8	<u>0.059</u> 0.061	3.4
bottoms. Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo- (k)fluoranthene)	<u>56-55-3</u> <u>50-32-8</u> 205-99-2	0.059 0.061 0.11	3.4 3.4 6.8
bottoms. Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo- (k)fluoranthene) Benzo(k)fluoranthene	<u>56-55-3</u> 50-32-8	<u>0.059</u> 0.061	3.4
bottoms. Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo- (k)fluoranthene) Benzo(k)fluoranthene (difficult to	<u>56-55-3</u> <u>50-32-8</u> 205-99-2	0.059 0.061 0.11	3.4 3.4 6.8
bottoms. Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo- (k)fluoranthene) Benzo(k)fluoranthene (difficult to distinguish from benzo-	<u>56-55-3</u> <u>50-32-8</u> 205-99-2	0.059 0.061 0.11	3.4 3.4 6.8
bottoms. Benz(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene (difficult to distinguish from benzo- (b) fluoranthene)	<u>56-55-3</u> <u>50-32-8</u> 205-99-2 207-08-9	0.059 0.061 0.11 0.11	3.4 3.4 6.8 6.8
bottoms. Benz(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene (difficult to distinguish from benzo- (b) fluoranthene) Chrysene	<u>56-55-3</u> <u>50-32-8</u> 205-99-2 207-08-9 218-01-9	0.059 0.061 0.11 0.11	3.4 3.4 6.8 6.8
bottoms. Benz(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene (difficult to distinguish from benzo- (b) fluoranthene) Chrysene Dibenz(a,h) anthracene	$\frac{56-55-3}{50-32-8}$ $\frac{205-99-2}{205-99-2}$ $\frac{218-01-9}{53-70-3}$	0.059 0.061 0.11 0.11 0.11	3.4 3.4 6.8 6.8
bottoms. Benz(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene (difficult to distinguish from benzo- (b) fluoranthene) Chrysene	<u>56-55-3</u> <u>50-32-8</u> 205-99-2 207-08-9 218-01-9	0.059 0.061 0.11 0.11	3.4 3.4 6.8
bottoms. Benz(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene (difficult to distinguish from benzo- (b) fluoranthene) Chrysene Dibenz(a,h) anthracene Indeno(1,2,3-cd) pyrene	$\frac{56-55-3}{50-32-8}$ $\frac{205-99-2}{205-99-2}$ $\frac{218-01-9}{53-70-3}$	0.059 0.061 0.11 0.11 0.11	3.4 3.4 6.8 6.8
bottoms. Benz(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene (difficult_to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene (difficult_to distinguish from benzo- (b) fluoranthene) Chrysene Dibenz(a,h) anthracene Indeno(1,2,3-cd) pyrene K149	$\frac{56-55-3}{50-32-8}$ $\frac{205-99-2}{205-99-2}$ $\frac{218-01-9}{53-70-3}$ $\frac{193-39-5}{193-39-5}$	$ \underbrace{\begin{array}{c} 0.059 \\ 0.061 \\ 0.11 \end{array} \\ 0.11 \\ 0.059 \\ 0.055 \\ 0.0055 \\ 0.0055 \end{array} $	$\frac{3.4}{3.4}$ $\frac{3.4}{6.8}$ $\frac{3.4}{8.2}$ $\frac{3.4}{3.4}$
bottoms. Benz(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene (difficult to distinguish from benzo- (k) fluoranthene) Benzo(k) fluoranthene (difficult to distinguish from benzo- (b) fluoranthene) Chrysene Dibenz(a,h) anthracene Indeno(1,2,3-cd) pyrene	<u>56-55-3</u> <u>50-32-8</u> <u>205-99-2</u> <u>207-08-9</u> <u>218-01-9</u> <u>53-70-3</u> <u>193-39-5</u> e production of a	0.059 0.061 0.11 0.11 0.11 0.059 0.055 0.0055 1pha- (or methyl-	3.4 3.4 6.8 6.8 <u>3.4</u> <u>8.2</u> 3.4

n	nixtures of these function	al groups. (This	<u>s waste does n</u>	ot include still
ł	oottoms from the distillat	ions of benzyl ch	loride.)	
_	Chlorobenzene	108-90-7	0.057	6.0
	Chloroform	67-66-3	0.046	6.0
	Chloromethane	74-87-3	0.19	<u>30</u>
	p-Dichlorobenzene	106-46-7	0.090	6.0
	Hexachlorobenzene	<u>118-74-1</u>	0.055	10
	Pentachlorobenzene	608-93-5	0.055	<u>10</u>
	1,2,4,5-Tetrachloro-	<u>95-94-3</u>	0.055	<u>14</u>
	benzene			
	Toluene	<u>108-88-3</u>	<u>0.080</u>	<u>10</u>

<u>K150</u>

Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.

hlorides, and compounds	with mixtures of	these functional	groups.
Carbon tetrachloride	56-23-5	0.057	6.0
Chloroform	67-66-3	0.046	<u>6.0</u>
Chloromethane	74-87-3	0.19	<u>30</u>
p-Dichlorobenzene	106-46-7	0.090	6.0

<u>Hexachlorobenzene</u>	<u>118-74-1</u>	0.055	<u>10</u>
<u>Pentachlorobenzene</u>	608-93-5	0.055	<u>10</u>
<u>1,2,4,5-Tetrachloro-</u>	95-94-3	0.055	<u>14</u>
<u>benzene</u> <u>1,1,2,2- Tetrachloro-</u> ethane	<u>79-34-5</u>	0.057	6.0
Tetrachloroethylene	<u>127-18-4</u>	0.056	<u>6.0</u>
1,2,4-Trichlorobenzene	120-82-1	0.055	<u>19</u>

<u>K151</u>

Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha-(or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. 71-43-2 0.14 10 Benzene 56-23-5 0.057 6.0 Carbon tetrachloride Chloroform 67-66-3 0.046 6.0 $\frac{10}{10}$ <u>Hexachlorobenzene</u> 118-74-1 0.055 608-93-5 Pentachlorobenzene 0.055 14 <u>95-94-3</u> 1,2,4,5-Tetrachloro-0.055 benzene 0.056 6.0 127-18-4 Tetrachloroethylene 108-88-3 0.080 10 Toluene P001 Warfarin, & salts, when present at concentrations greater than 0.3% 81-81-2 (WETOX or <u>Warfarin</u> CMBST CHOXD) fb CARBN; or INCIN P002 1-Acety1-2-thiourea

<u>1-Acety1-2-thiourea</u> <u>1-Acety1-2-thiourea</u>	<u>591-08-2</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P003</u> <u>Acrolein</u> <u>Acrolein</u>	<u>107-02-6</u>	0.29	CMBST
<u>P004</u> <u>Aldrin</u> <u>Aldrin</u>	<u>309-00-2</u>	0.021	0.068
<u>P005</u> <u>Allyl alcohol</u> <u>Allyl alcohol</u>	<u>107-18-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>

Aluminum phosphide			
Aluminum phosphide	20859-73-6	<u>CHOXD; CHRED;</u> or INCIN	<u>CHOXD; CHRED;</u> or INCIN

P007

2000

5-Aminomethyl-3-isoxazolol

	555		
<u>5-Aminomethyl-3-isoxa-</u> <u>zolol</u>	<u>2763-96-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P008</u> <u>4-Aminopyridine</u> <u>4-Aminopyridine</u>	<u>504-24-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P009</u> <u>Ammonium picrate</u> <u>Ammonium picrate</u>	<u>131-74-8</u>	CHOXD; CHRED; CARBN; BIODG; or INCIN	<u>CHOXD; CHRED;</u> or <u>CMBST</u>
<u>P010</u> <u>Arsenic_acid</u> <u>Arsenic</u>	7440-38-2	<u>1.4</u>	5.0 mg/l TCLP
<u>P011</u> <u>Arsenic pentoxide</u> <u>Arsenic</u>	<u>7440-38-2</u>	1.4	5.0 mg/l TCLP
<u>P012</u> <u>Arsenic trioxide</u> <u>Arsenic</u>	7440-38-2	<u>1.4</u>	5.0 mg/l TCLP
<u>P013</u> <u>Barium cyanide</u> <u>Barium</u> <u>Cyanides (Total)⁷ Cyanides (Amenable)⁷</u>	<u>7440-39-3</u> <u>57-12-5</u> <u>57-12-5</u>	<u>NA</u> <u>1.2</u> 0.86	<u>7.6 mg/l TCLP 590 30</u>
<u>P014</u> <u>Thiophenol (Benzene thiol)</u> <u>Thiophenol (Benzene</u> <u>thiol)</u>	<u>108-98-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P015</u> <u>Beryllium dust</u> <u>Beryllium</u>	7440-41-7	RMETL; or RTHRM	<u>RMETL; or</u> <u>RTHRM</u>
<u>P016</u> <u>Dichloromethyl ether (Bis(chl</u> <u>Dichloromethyl ether</u>	oromethyl)ether) 542-88-1	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P017</u> <u>Bromoacetone</u> <u>Bromoacetone</u>	<u>598-31-2</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN

<u>P018</u> <u>Brucine</u> <u>Brucine</u>	<u>357-57-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P020</u> <u>2-sec-Butyl-4,6-dinitrophenol</u> <u>2-sec-Butyl-4,6-dinitro-</u> <u>phenol (Dinoseb)</u>	<u>(Dinoseb)</u> <u>88-85-7</u>	0.066	2.5
<u>P021</u> <u>Calcium cyanide</u> <u>Cyanides (Total)⁷ Cyanides (Amenable)⁷</u>	<u>57-12-5</u> 57-12-5	<u>1.2</u> 0.86	<u>590</u> <u>30</u>
<u>P022</u> <u>Carbon disulfide</u> <u>Carbon disulfide</u> <u>Carbon disulfide;</u> <u>alternate⁶ standard for</u> <u>nonwastewaters only</u>	<u>75-15-0</u> 75-15-0	<u>3.8</u> <u>NA</u>	<u>INCIN</u> 4.8 mg/l TCLP
<u>P023</u> <u>Chloroacetaldehyde</u> <u>Chloroacetaldehyde</u>	<u>107-20-0</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P024</u> <u>p-Chloroaniline</u> <u>p-Chloroaniline</u>	<u>106-47-8</u>	.046	<u>16</u>
<u>P026</u> <u>1-(o-Chlorophenyl)thiourea</u> <u>1-(o-Chlorophenyl)thio-</u> <u>urea</u>	<u>5344-82-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P027</u> <u>3-Chloropropionitrile</u> <u>3-Chloropropionitrile</u>	<u>542-76-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P028</u> <u>Benzyl chloride</u> <u>Benzyl chloride</u>	<u>100-44-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P029</u> <u>Copper cyanide</u> <u>Cyanides (Total)</u> ⁷ <u>Cyanides (Amenable)</u> ⁷	<u>57-12-5</u> 57-12-5	<u>1.2</u> 0.86	<u>590</u> <u>30</u>

<u>P030</u> <u>Cyanides (soluble salts and c</u> <u>Cyanides (Total)⁷ Cyanides (Amenable)⁷</u>	<u>complexes)</u> 57-12-5 57-12-5	<u>1.2</u> 0.86	<u>590</u> <u>30</u>
<u>P031</u> <u>Cyanogen</u> <u>Cyanogen</u>	<u>460-19-5</u>	<u>CHOXD; WETOX;</u> or INCIN	<u>CHOXD; WETOX;</u> or incin
<u>P033</u> <u>Cyanogen chloride</u> <u>Cyanogen chloride</u>	<u>506-77-4</u>	<u>CHOXD; WETOX;</u> or INCIN	<u>CHOXD; WETOX;</u> or INCIN
<u>P034</u> <u>2-Cyclohexyl-4,6-dinitropheno</u> <u>2-Cyclohexyl-4,6-</u> <u>dinitrophenol</u>	<u>131-89-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P036</u> <u>Dichlorophenylarsine</u> <u>Arsenic</u>	<u>7440-38-2</u>	1.4	5.0 mg/l TCLP
<u>P037</u> <u>Dieldrin</u> <u>Dieldrin</u>	<u>60-57-1</u>	0.017	0.13
<u>P038</u> <u>Diethylarsine</u> <u>Arsenic</u>	7440-38-2	<u>1.4</u>	5.0 mg/l TCLP
<u>P039</u> <u>Disulfoton</u> <u>Disulfoton</u>	<u>298-04-4</u>	<u>0.017</u>	<u>6.2</u>
<u>P040</u> <u>O,O-Diethyl-O-pyrazinyl-phosp</u> <u>O,O-Diethyl-O-pyrazinyl-</u> <u>phosphorothioate</u>		<u>CARBN; or</u> INCIN	CMBST
<u>P041</u> <u>Diethyl-p-nitrophenyl phospha</u> <u>Diethyl-p-nitrophenyl</u> <u>phosphate</u>	<u>ate</u> <u>311-45-5</u>	<u>CARBN; or</u> INCIN	CMBST
<u>P042</u> <u>Epinephrine</u> <u>Epinephrine</u>	<u>51-43-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P043</u> <u>Diisopropylfluorophosphate (I</u> <u>Diisopropylfluoro-</u> <u>phosphate (DFP)</u>	<u>0FP)</u> 55-91-4	<u>CARBN; or</u> INCIN	CMBST
<u>P044</u>			

<u>P044</u> <u>Dimethoate</u>

Dimethoate	<u>60-51-5</u>	<u>CARBN; or</u> <u>INCIN</u>	CMBST
<u>P045</u> <u>Thiofanox</u> <u>Thiofanox</u>	<u>39196-18-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P046</u> <u>alpha,alpha-Dimethylphenethy</u> <u>alpha,alpha-Dimethyl-</u> <u>phenethylamine</u>		(WETOX_or CHOXD)_fb CARBN;_or INCIN	INCIN
<u>P047</u> <u>4,6-Dinitro-o-cresol</u> <u>4,6-Dinitro-o-cresol</u>	<u>543-52-1</u>	0.28	<u>160</u>
<u>P047</u> <u>4,6-Dinitro-o-cresol salts</u> <u>NA</u>	<u>NA</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P048</u> <u>2,4-Dinitrophenol</u> <u>2,4-Dinitrophenol</u>	<u>51-28-5</u>	0.12	<u>160</u>
<u>P049</u> <u>Dithiobiuret</u> <u>Dithiobiuret</u>	<u>541-53-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P050</u> <u>Endosulfan</u> <u>Endosulfan I</u> <u>Endosulfan II</u> <u>Endosulfan sulfate</u>	<u>939-98-8</u> <u>33213-6-5</u> 1031-07-8	0.023 0.029 0.029	<u>0.066</u> 0.13 0.13
<u>P051</u> <u>Endrin</u> <u>Endrin</u> <u>Endrin aldehyde</u>	<u>72-20-8</u> 7421-93-4	<u>0.0028</u> 0.025	<u>0.13</u> 0.13
<u>P054</u> <u>Aziridine</u> <u>Aziridine</u>	<u>151-56-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P056</u> <u>Fluorine</u> <u>Fluoride (measured in</u> wastewaters only)	<u>16964-48-8</u>	<u>35</u>	ADGAS fb NEUTR

<u>P057</u> <u>Fluoroacetamide</u> <u>Fluoroacetamide</u>	<u>640-19-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P058</u> <u>Fluoroacetic acid, воdium вal</u> <u>Fluoroacetic acid,</u> <u>sodium salt</u>	<u>t</u> <u>62-74-8</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P059</u> <u>Heptachlor</u> <u>Heptachlor</u> <u>Heptachlor epoxide</u>	<u>76-44-8</u> 1024-57-3	<u>0.0012</u> <u>0.016</u>	<u>0.066</u> 0.066
<u>P060</u> <u>Isodrin</u> <u>Isodrin</u>	<u>465-73-6</u>	0.021	0.066
<u>P062</u> <u>Hexaethyl tetraphosphate</u> <u>Hexaethyl tetraphosphate</u>	<u>757-58-4</u>	<u>CARBN; or</u> <u>INCIN</u>	CMBST
<u>P063</u> <u>Hydrogen cyanide</u> <u>Cyanides (Total)⁷ Cyanides (Amenable)⁷</u>	<u>57-12-5</u> 57-12-5	<u>1.2</u> 0.86	<u>590</u> <u>30</u>
<u>P064</u> <u>Isocyanic acid, ethyl ester</u> <u>Isocyanic acid, ethyl</u> <u>ester</u>	<u>624-83-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
P065			
P065 (mercury fulminate) nonw contant, that are not inciner			
Mercury	<u>7439-97-6</u>	<u>NA</u>	IMERC
<u>P065</u> <u>P065 (mercury fulminate) nonw</u> or are residues from RMERC; a			
<u>total mercury.</u> <u>Mercury</u>	7339-97-6	NA	RMERC
<u>P065</u> P065 (mercury fulminate) nonw		are residues from	RMERC and
<u>contain less than 260 mg/kg t</u> <u>Mercury</u>	<u>otal mercury.</u> <u>7439-97-6</u>	NA	0.20 mg/l TCLP
<u>P065</u> <u>P065 (mercury fulminate) nonw</u> <u>contain less than 260 mg/kg t</u>		<u>are incinerator r</u>	esidues and
Mercury	7439-97-6	<u>NA</u>	<u>0.025 mg/l</u> TCLP

<u>P065</u> <u>All P065 (mercury fulminate)</u> <u>Mercury</u>	<u>wastewaters.</u> 7439-97-6	0.15	<u>NA</u>
<u>P066</u> <u>Methomyl</u> <u>Methomyl</u>	<u>16752-77-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P067</u> <u>2-Methyl-aziridine</u> <u>2-Methyl-aziridine</u>	<u>75-55-8</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P068</u> <u>Methyl hydrazine</u> <u>Methyl hydrazine</u>	<u>60-34-4</u>	CHOXD; CHRED; CARBN; BIODG; or INCIN	CHOXD; CHRED, or CMBST
<u>P069</u> <u>2-Methyllactonitrile</u> <u>2-Methyllactonitrile</u>	<u>75-86-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P070</u> <u>Aldicarb</u> <u>Aldicarb</u>	<u>116-06-3</u>	(WETOX or CHOXD) fb CAREN; or INCIN	INCIN
<u>P071</u> <u>Methyl parathion</u> <u>Methyl parathion</u>	<u>298-00-0</u>	<u>0.014</u>	<u>4.6</u>
<u>P072</u> <u>1-Naphthyl-2-thiourea</u> <u>1-Naphthyl-2-thiourea</u>	<u>86-88-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P073</u> <u>Nickel carbonyl</u> <u>Nickel</u>	7440-02-0	<u>3.98</u>	5.0 mg/l TCLP
<u>P074</u> <u>Nickel cyanide</u> <u>Cyanides (Total)⁷ Cyanides (Amenable)⁷ <u>Nickel</u> <u>P075</u></u>	<u>57-12-5</u> <u>57-12-5</u> 7440-02-0	<u>1.2</u> <u>0.86</u> <u>3.98</u>	<u>590</u> <u>30</u> 5.0 mg/l TCLP
Nicotine and salts			

Nicotine and salts

	201			
<u>Nicotine and salts</u>	<u>54-11-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	
<u>P076</u> <u>Nitric oxide</u> <u>Nitric oxide</u>	<u>10102-43-9</u>	ADGAS	ADGAS	
<u>P077</u> <u>p-Nitroaniline</u> <u>p-Nitroaniline</u>	<u>100-01-6</u>	0.028	<u>28</u>	
<u>P078</u> <u>Nitrogen dioxide</u> <u>Nitrogen dioxide</u>	<u>10102-44-0</u>	ADGAS	ADGAS	
<u>P081</u> <u>Nitroglycerin</u> <u>Nitroglycerin</u>	<u>55-63-0</u>	<u>CHOXD; CHRED;</u> <u>CARBN; BIODG</u> or INCIN	<u>CHOXD; CHRED;</u> or <u>CMBST</u>	
<u>P082</u> <u>N-Nitrosodimethylamine</u> <u>N-Nitrosodimethylamine</u>	<u>62-75-9</u>	0.40	<u>2.3</u>	
<u>P084</u> <u>N-Nitrogomethylvinylamine</u> <u>N-Nitrogomethylvinyl-</u> <u>amine</u>	<u>4549-40-0</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN	
<u>P085</u> <u>Octamethylpyrophosphoramide</u> <u>Octamethylpyrophosphor-</u> <u>amide</u>	<u>152-16-9</u>	<u>CARBN; or</u> INCIN	CMBST	
<u>P087</u> <u>Osmium tetroxide</u> <u>Osmium tetroxide</u>	<u>20816-12-0</u>	<u>RMETL; or</u> <u>RTHRM</u>	<u>RMETL; or</u> <u>RTHRM</u>	
<u>P088</u> <u>Endothall</u> <u>Endothall</u>	<u>145-73-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST	
<u>P089</u> <u>Parathion</u> <u>Parathion</u>	<u>56-38-2</u>	<u>0.014</u>	4.6	
<u>P092</u> P092 (phenyl mercuric acetate) nonwastewaters, reqardless of their total				
mercury content, that are not				
<u>RMERC.</u> <u>Mercury</u>	<u>7439-97-6</u>	<u>NA</u>	IMERC; or RMERC	

P092 P092 (phenyl mercuric acetate) nonwastewaters that are either incinerator residues or are residues from RMERC; and still contain greater than or equal to 260 mg/kg total mercury. 7439-97-6 Mercury NA RMERC P092 P092 (phenyl mercuric acetate) nonwastewaters that are residues from RMERC and contain less than 260 mg/kg total mercury. 7439-97-6 Mercury <u>NA</u> 0.20 mg/l TCLP P092 P092 (phenyl mercuric acetate) nonwastewaters that are incinerator residues and contain less than 260 mg/kg total mercury. 7439-97-6 NA 0.025 mg/l Mercury TCLP P092 All PO92 (phenyl mercuric acetate) wastewaters. Mercury 7439-97-6 0.15 NA P093 Phenylthiourea Phenylthiourea 103-85-5 (WETOX or INCIN CHOXD) fb CARBN; or INCIN P094 Phorate 298-02-2 Phorate 0.021 4.6 P095 Phosgene Phosgene 75-44-5 (WETOX or INCIN CHOXD) fb CARBN; or INCIN P096 Phosphine Phosphine 7803-51-2 CHOXD; CHRED; CHOXD; CHRED; or INCIN or INCIN P097 Famphur Famphur 52-85-7 0.017 15 P098 Potassium cyanide. Cyanides (Total)7 <u>1.2</u> 57-12-5 590 0.86 Cyanides (Amenable)⁷ 57-12-5 30 P099 Potassium silver cyanide Cyanides (Total)⁷ 590 57-12-5 1.2 Cyanides (Amenable)⁷ 57-12-5 0.86 30 Silver 7440-22-4 0.43 0.30 mg/l TCLP P101

Ethyl cyanide (Propanenitrile)

363			
<u>Ethyl cyanide</u> (Propanenitrile)	<u>107-12-0</u>	0.24	<u>360</u>
<u>P102</u> <u>Propargyl alcohol</u> <u>Propargyl alcohol</u>	<u>107-19-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>P103</u> <u>Selenourea</u> <u>Selenium</u>	<u>7782-49-2</u>	0.82	0.16 mg/l TCLP
<u>P104</u> <u>Silver cyanide</u> <u>Cyanides (Total)⁷ <u>Cyanides (Amenable)⁷ <u>Silver</u></u></u>	<u>57-12-5</u> <u>57-12-5</u> 7440-22-4	<u>1.2</u> <u>0.86</u> <u>0.43</u>	<u>590</u> <u>30</u> 0.30 mg/l TCLP
<u>P105</u> <u>Sodium azide</u> <u>Sodium azide</u>	<u>26628-22-8</u>	<u>CHOXD; CHRED;</u> CARBN; BIODG; or INCIN	<u>CHOXD; CHRED;</u> or CMBST
<u>P106</u> <u>Sodium cyanide</u> <u>Cyanides (Total)⁷ Cyanides (Amenable)⁷</u>	<u>57-12-5</u> 57-12-5	<u>1.2</u> 0.86	<u>590</u> <u>30</u>
<u>P108</u> <u>Strychnine and salts</u> <u>Strychnine and salts</u>	<u>57-24-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P109</u> <u>Tetraethyldithiopyrophosphate</u> <u>Tetraethyldithiopyro-</u> <u>phosphate</u>	<u>3689-24-5</u>	<u>CARBN; or</u> <u>INCIN</u>	CMBST
<u>P110</u> Tetraethyl lead <u>lead</u>	<u>7439-92-1</u>	0.69	0.37 mg/l TCLP
<u>P111</u> <u>Tetraethylpyrophosphate</u> <u>Tetraethylpyrophosphate</u>	<u>107-49-3</u>	<u>CARBN; or</u> <u>INCIN</u>	CMBST
<u>P112</u> <u>Tetranitromethane</u> <u>Tetranitromethane</u>	<u>509-14-8</u>	<u>CHOXD; CHRED;</u> <u>CARBN; BIODG;</u> or INCIN	<u>CHOXD; CHRED;</u> or CMBST
<u>P113</u> <u>Thallic oxide</u> <u>Thallium (measured in</u> <u>wastewaters only)</u>	<u>7440-28-0</u>	<u>1.4</u>	<u>RTHRM; or</u> <u>STABL</u>

<u>P114</u> <u>Thallium selenite</u> <u>Selenium</u>	<u>7782-49-2</u>	<u>0.82</u>	0.16 mg/l TCLP
<u>P115</u> <u>Thallium (I) sulfate</u> <u>Thallium (measured in</u> <u>wastewaters only)</u>	<u>7440-28-0</u>	<u>1.4</u>	<u>RTHRM; or</u> <u>STABL</u>
<u>P116</u> <u>Thiosemicarbazide</u> <u>Thiosemicarbazide</u>	<u>79-19-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P118</u> <u>Trichloromethanethiol</u> <u>Trichloromethanethiol</u>	<u>75-70-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>P119</u> <u>Ammonium vanadate</u> <u>Vanadium (measured in</u> wastewaters only)	<u>7440-62-2</u>	<u>4.3</u>	STABL
<u>P120</u> <u>Vanadium pentoxide</u> <u>Vanadium (measured in</u> wastewaters only)	7440-62-2	<u>4.3</u>	STABL
<u>P121</u> <u>Zinc_cyanide</u> <u>Cyanides (Total)⁷ Cyanides (Amenable)⁷</u>	<u>57-12-5</u> <u>57-12-5</u>	<u>1.2</u> 0.86	<u>590</u> <u>30</u>
<u>P122</u> <u>Zinc phosphide Zn₃P₂, when pre</u> <u>Zinc Phosphide</u>	<u>esent at concentra</u> <u>1314-84-7</u>	ations greater th CHOXD; CHRED; or INCIN	an 10% CHOXD; CHRED; or INCIN
<u>P123</u> <u>Toxaphene</u> <u>Toxaphene</u>	<u>8001-35-2</u>	0.0095	2.6
<u>UO01</u> <u>Acetaldehyde</u> <u>Acetaldehyde</u>	<u>75-07-0</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U002</u> <u>Acetone</u> <u>Acetone</u>	<u>67-64-1</u>	0.28	<u>160</u>
<u>U003</u> <u>Acetonitrile</u> <u>Acetonitrile</u>	75-05-8	<u>5.6</u>	INCIN

Acetonitrile; alternate ⁶ standard for nonwastewaters only	<u>75-05-8</u>	<u>NA</u>	<u>1.8</u>
<u>U004</u> <u>Acetophenone</u> <u>Acetophenone</u>	<u>98-86-2</u>	0.010	<u>9.7</u>
<u>U005</u> <u>2-Acetylaminofluorene</u> <u>2-Acetylaminofluorene</u>	<u>53-96-3</u>	0.059	<u>140</u>
<u>U006</u> <u>Acetyl chloride</u> <u>Acetyl chloride</u>	<u>75-36-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>INCIN</u>
<u>U007</u> <u>Acrylamide</u> <u>Acrylamide</u>	<u>79-06-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U008</u> <u>Acrylic acid</u> <u>Acrylic acid</u>	<u>79-10-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U009</u> <u>Acrylonitrile</u> <u>Acrylonitrile</u>	<u>107-13-1</u>	0.24	<u>84</u>
<u>UO10</u> <u>Mitomycin C</u> <u>Mitomycin C</u>	<u>50-07-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U011</u> <u>Amitrole</u> <u>Amitrole</u>	<u>61-82-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U012</u> <u>Aniline</u> <u>Aniline</u>	<u>62-53-3</u>	<u>0.81</u>	<u>14</u>
<u>U014</u> <u>Auramine</u> <u>Auramine</u>	<u>492-80-8</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN

<u>U015</u> <u>Azaserine</u> <u>Azaserine</u>	<u>115-02-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U016</u> <u>Benz(c)acridine</u> <u>Benz(c)acridine</u>	<u>225-51-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U017</u> <u>Benzal chloride</u> <u>Benzal chloride</u>	<u>98-87-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U018</u> <u>Benz(a)anthracene</u> <u>Benz(a)anthracene</u>	<u>56-55-3</u>	<u>0.059</u>	<u>3.4</u>
<u>U019</u> <u>Benzene</u> <u>Benzene</u>	<u>71-43-2</u>	0.14	<u>10</u>
<u>U020</u> <u>Benzenesulfonyl chloride</u> <u>Benzenesulfonyl chloride</u>	<u>98-09-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U021</u> <u>Benzidine</u> <u>Benzidine</u>	<u>92-87-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U022</u> <u>Benzo(a)pyrene</u> <u>Benzo(a)pyrene</u>	<u>50-32-8</u>	0.061	<u>3.4</u>
<u>U023</u> <u>Benzotrichloride</u> <u>Benzotrichloride</u>	<u>98-07-7</u>	<u>CHOXD; CHRED;</u> <u>CARBN; BIODG;</u> or INCIN	<u>CHOXD; CHRED;</u> or CMBST
<u>U024</u> <u>bis(2-Chloroethoxy)methane</u> <u>bis(2-Chloroethoxy)-</u> <u>methane</u>	<u>111-91-1</u>	0.036	<u>7.2</u>
<u>U025</u> <u>bis(2-Chloroethyl)ether</u> <u>bis(2-Chloroethyl)ether</u>	<u>111-44-4</u>	<u>0.033</u>	<u>6.0</u>

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<u>U026</u> <u>Chlornaphazine</u> <u>Chlornaphazine</u>	<u>494-03-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U027</u> <u>bis(2-Chloroisopropyl)ether</u> <u>bis(2-Chloroisopropyl)-</u> <u>ether</u>	<u>39638-32-9</u>	0.055	<u>7.2</u>
<u>U028</u> <u>bis(2-Ethylhexyl)phthalate</u> <u>bis(2-Ethylhexyl)-</u> <u>phthalate</u>	<u>117-81-7</u>	0.28	<u>28</u>
<u>U029</u> <u>Methyl bromide (Bromomethane)</u> <u>Methyl bromide (Bromo-</u> <u>methane)</u>	74-83-9	0.11	<u>15</u>
<u>U030</u> <u>4-Bromophenyl phenyl ether</u> <u>4-Bromophenyl phenyl</u> <u>ether</u>	<u>101-55-3</u>	0.055	<u>15</u>
<u>U031</u> <u>n-Butyl alcohol</u> <u>n-Butyl alcohol</u>	<u>71-36-3</u>	5.6	2.6
<u>U032</u> <u>Calcium chromate</u> <u>Chromium (Total)</u>	<u>7440-47-3</u>	<u>2.77</u>	0.86 mg/1 TCLP
<u>U033</u> <u>Carbon oxyfluoride</u> <u>Carbon oxyfluoride</u>	<u>353-50-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U034</u> <u>Trichloroacetaldehyde (Chlora</u> <u>Trichloroacetaldehyde</u> <u>(Chloral)</u>	<u>1)</u> <u>75-87-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U035</u> <u>Chlorambucil</u> <u>Chlorambucil</u>	<u>305-03-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U036</u> <u>Chlordane</u> <u>Chlordane (alpha and</u> gamma isomers)	<u>57-74-9</u>	<u>0.0033</u>	0.26

<u>U037</u> <u>Chlorobenzene</u> Chlorobenzene	108-90-7	0.057	6.0
<u>U038</u> <u>Chlorobenzilate</u> Chlorobenzilate	510-15-6	0.10	INCIN
U039 p-Chloro-m-cresol			
p-Chloro-m-cresol	<u>59-50-7</u>	0.018	<u>14</u>
<u>U041</u> <u>Epichlorohydrin (1-Chloro-2,3</u> <u>Epichlorohydrin (1-</u> <u>Chloro-2,3-epoxypropane)</u>	<u>-epoxypropane)</u> <u>106-89-8</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U042</u> <u>2-Chloroethyl vinyl ether</u> <u>2-Chloroethyl vinyl</u> <u>ether</u>	<u>110-75-8</u>	0.062	INCIN
<u>U043</u> <u>Vinyl chloride</u> <u>Vinyl chloride</u>	<u>75-01-4</u>	0.27	6.0
<u>U044</u> <u>Chloroform</u> <u>Chloroform</u>	<u>67-66-3</u>	0.046	6.0
<u>U045</u> <u>Chloromethane (Methyl chlorid</u> <u>Chloromethane (Methyl</u> <u>chloride)</u>	<u>le)</u> <u>74-87-3</u>	0.19	<u>30</u>
<u>U046</u> <u>Chloromethyl methyl ether</u> <u>Chloromethyl methyl</u> <u>ether</u>	<u>107-30-2</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U047</u> <u>2-Chloronaphthalene</u> <u>2-Chloronaphthalene</u>	<u>91-58-7</u>	0.055	5.6
<u>U048</u> <u>2-Chlorophenol</u> <u>2-Chlorophenol</u>	<u>95-57-8</u>	0.044	<u>5.7</u>
<u>U049</u> <u>4-Chloro-o-toluidine hydrochl</u> <u>4-Chloro-o-toluidine</u> hydrochloride	<u>oride</u> <u>3165-93-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U050</u> <u>Chrysene</u> <u>Chrysene</u>	<u>218-01-9</u>	0.059	3.4

<u>U051</u> <u>Creosote</u> <u>Naphthalene</u> <u>Pentachlorophenol</u> <u>Phenanthrene</u> <u>Pyrene</u> <u>Toluene</u> <u>Xylenes-mixed isomers</u> (sum of o-, m-, and p- <u>xylene concentrations)</u> <u>Lead</u>	$\begin{array}{r} 91-20-3\\ 87-86-5\\ 85-01-8\\ 129-00-0\\ 108-88-3\\ 1330-20-7\\ \hline 7439-92-1 \end{array}$	0.059 0.089 0.059 0.067 0.080 0.32	5.6 7.4 5.6 8.2 10 30 0.37 mg/1 TCLP
<u>U052</u> <u>Cresols (Cresylic acid)</u> <u>o-Cresol</u> <u>m-Cresol (difficult to</u> <u>distinguish from p-</u>	<u>95-48-7</u> 108-39-4	<u>0.11</u> 0.77	<u>5.6</u> 5.6
<u>cresol)</u> <u>p-Cresol (difficult to</u> <u>distinguish from m-</u>	106-44-5	0.77	5.6
<u>cresol)</u> <u>Cresol-mixed isomers</u> <u>(Cresylic acid)</u> (sum of o-, m-, and p- cresol concentrations)	<u>1319-77-3</u>	<u>0.88</u>	<u>11.2</u>
<u>U053</u> <u>Crotonaldehyde</u> <u>Crotonaldehyde</u>	<u>4170-30-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U055</u> <u>Cumene</u> <u>Cumene</u>	<u>98-82-8</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U056</u> <u>Cyclohexane</u> <u>Cyclohexane</u>	<u>110-82-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U057</u> <u>Cyclohexanone</u> <u>Cyclohexanone</u> <u>Cyclohexanone;</u> <u>alternate⁶ standard for</u> <u>nonwastewaters only</u>	<u>108-94-1</u> <u>108-94-1</u>	<u>0.36</u> <u>NA</u>	<u>CMBST</u> 0.75 mg/l TCLP
<u>U058</u> <u>Cyclophosphamide</u> <u>Cyclophosphamide</u>	<u>50-18-0</u>	<u>CARBN; or</u> INCIN	CMBST

<u>U059</u> Daunomycin

Daunomycin	<u>20830-81-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U060</u> <u>DDD</u> <u>o,p'-DDD</u> <u>p,p'-DDD</u>	<u>53-19-0</u> 72-54-8	<u>0.023</u> 0.023	<u>0.087</u> 0.087
<u>UU61</u> <u>o,p'-DDT</u> <u>p,p'-DDT</u> <u>o,p'-DDD</u> <u>p,p'-DDD</u> <u>o,p'-DDE</u> <u>p,p'-DDE</u>	$ \frac{789-02-6}{50-29-3} \\ \overline{53-19-0} \\ \overline{72-54-8} \\ \overline{3424-82-6} \\ \overline{72-55-9} $	0.0039 0.0039 0.023 0.023 0.031 0.031	0.087 0.087 0.087 0.087 0.087 0.087
<u>U062</u> <u>Diallate</u> <u>Diallate</u>	<u>2303-16-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U063</u> Dibenz(a,h)anthracene Dibenz(a,h)anthracene	<u>53-70-3</u>	0.055	8.2
<u>U064</u> <u>Dibenz(a,i)pyrene</u> <u>Dibenz(a,i)pyrene</u>	<u>189-55-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U066</u> <u>1,2-Dibromo-3-chloropropane</u> <u>1,2-Dibromo-3-chloro-</u> <u>propane</u>	<u>96-12-8</u>	<u>0.11</u>	<u>15</u>
<u>U067</u> <u>Ethylene dibromide (1,2-Dibro</u> <u>Ethylene dibromide (1,2-</u> <u>Dibromoethane)</u>	<u>moethane)</u> 106-93-4	0.028	<u>15</u>
<u>U068</u> <u>Dibromomethane</u> <u>Dibromomethane</u>	<u>74-95-3</u>	<u>0.11</u>	<u>15</u>
<u>U069</u> <u>Di-n-butyl phthalate</u> <u>Di-n-butyl phthalate</u>	<u>84-74-2</u>	0.057	<u>28</u>
<u>U070</u> <u>o-Dichlorobenzene</u> <u>o-Dichlorobenzene</u>	<u>95-50-1</u>	<u>0.088</u>	6.0
<u>U071</u> <u>m-Dichlorobenzene</u> <u>m-Dichlorobenzene</u>	<u>541-73-1</u>	0.036	<u>6.0</u>

<u>U072</u> <u>p-Dichlorobenzene</u> <u>p-Dichlorobenzene</u>	<u>106-46-7</u>	0.090	<u>6.0</u>
<u>U073</u> <u>3,3'-Dichlorobenzidine</u> <u>3,3'-Dichlorobenzidine</u>	<u>91-94-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>INCIN</u>
<u>U074</u> <u>1,4-Dichloro-2-butene</u> <u>cis-1,4-Dichloro-2-</u> <u>butene</u>	<u>1476-11-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>trans-1,4-Dichloro-2-</u> <u>butene</u>	<u>764-41-0</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>INCIN</u>
<u>U075</u> <u>Dichlorodifluoromethane</u> <u>Dichlorodifluoromethane</u>	<u>75-71-8</u>	0.23	7.2
<u>U076</u> <u>1,1-Dichloroethane</u> <u>1,1-Dichloroethane</u>	<u>75-34-3</u>	0.059	<u>6.0</u>
<u>U077</u> <u>1,2-Dichloroethane</u> <u>1,2-Dichloroethane</u>	<u>107-06-2</u>	<u>0.21</u>	<u>6.0</u>
<u>U078</u> <u>1,1-Dichloroethylene</u> <u>1,1-Dichloroethylene</u>	<u>75-35-4</u>	0.025	<u>6.0</u>
<u>U079</u> <u>1,2-Dichloroethylene</u> <u>trans-1,2-Dichloro-</u> <u>ethylene</u>	<u>156-60-5</u>	0.054	<u>30</u>
<u>U080</u> <u>Methylene chloride</u> <u>Methylene chloride</u>	<u>75-09-2</u>	0.089	<u>30</u>
<u>U081</u> 2,4-Dichlorophenol 2,4-Dichlorophenol	<u>120-83-2</u>	<u>0.044</u>	<u>14</u>
<u>U082</u> 2,6-Dichlorophenol 2,6-Dichlorophenol	<u>87-65-0</u>	0.044	<u>14</u>
<u>U083</u> <u>1,2-Dichloropropane</u> <u>1,2-Dichloropropane</u>	<u>78-87-5</u>	0.85	<u>18</u>
<u>U084</u>			

U084 1,3-Dichloropropylene

	372		
cis-1,3-Dichloro-	10061-01-5	0.036	<u>18</u>
<u>propylene</u> <u>trans-1,3-Dichloro-</u> propylene	<u>10061-02-6</u>	0.036	<u>18</u>
<u>U085</u> <u>1,2:3,4-Diepoxybutane</u> <u>1,2:3,4-Diepoxybutane</u>	<u>1464-53-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U086</u> <u>N,N'-Diethylhydrazine</u> <u>N,N'-Diethylhydrazine</u>	<u>1615-80-1</u>	<u>CHOXD; CHRED;</u> <u>CARBN; BIODG;</u> or INCIN	CHOXD; CHRED; or CMBST
<u>U087</u> <u>O,O-Diethyl S-methyldithiopho</u> <u>O,O-Diethyl S-methyl-</u> <u>dithiophosphate</u>	<u>osphate</u> <u>3288-58-2</u>	CARBN; or INCIN	CMBST
<u>U088</u> <u>Diethyl phthalate</u> <u>Diethyl phthalate</u>	84-66-2	0.20	<u>28</u>
<u>U089</u> <u>Diethyl stilbestrol</u> <u>Diethyl stilbestrol</u>	<u>56-53-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U090</u> <u>Dihydrosafrole</u> <u>Dihydrosafrole</u>	<u>94-58-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U091</u> <u>3,3'-Dimethoxybenzidine</u> <u>3,3'-Dimethoxybenzidine</u>	<u>119-90-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U092</u> <u>Dimethylamine</u> <u>Dimethylamine</u>	<u>124-40-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U093</u> <u>p-Dimethylaminoazobenzene</u> <u>p-Dimethyl-</u> <u>aminoazobenzene</u>	<u>60-11-7</u>	<u>0.13</u>	INCIN
<u>U094</u>			

<u>U094</u> 7,12-Dimethylbenz(a)anthracene

7,12-Dimethylbenz(a)- anthracene	<u>57-97-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U095</u> <u>3,3'-Dimethylbenzidine</u> <u>3,3'-Dimethylbenzidine</u>	<u>119-93-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U096</u> <u>alpha, alpha-Dimethyl benzyl</u> <u>alpha, alpha-Dimethyl</u> <u>benzyl hydroperoxide</u>	<u>hydroperoxide</u> <u>80-15-9</u>	<u>CHOXD; CHRED;</u> <u>CARBN; BIODG;</u> or INCIN	<u>CHOXD; CHRED;</u> or CMBST
<u>U097</u> <u>Dimethylcarbamoyl chloride</u> <u>Dimethylcarbamoyl</u> <u>chloride</u>	<u>79-44-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U098</u> <u>1,1-Dimethylhydrazine</u> <u>1,1-Dimethylhydrazine</u>	<u>57-14-7</u>	CHOXD; CHRED; CARBN; BIODG; or INCIN	<u>CHOXD; CHRED;</u> or CMBST
<u>U099</u> <u>1,2-Dimethylhydrazine</u> <u>1,2-Dimethylhydrazine</u>	<u>540-73-8</u>	CHOXD; CHRED; CARBN; BIODG; or INCIN	<u>CHOXD; CHRED;</u> or CMBST
<u>U101</u> 2,4-Dimethylphenol 2,4-Dimethylphenol U102	<u>105-67-9</u>	<u>0.036</u>	<u>14</u>
<u>Dimethyl phthalate</u> <u>Dimethyl phthalate</u>	<u>131-11-3</u>	0.047	<u>28</u>
<u>U103</u> <u>Dimethyl sulfate</u> <u>Dimethyl sulfate</u>	<u>77-78-1</u>	CHOXD; CHRED; CAREN; BIODG; or INCIN	<u>CHOXD; CHRED;</u> or CMBST
<u>U105</u> 2,4-Dinitrotoluene 2,4-Dinitrotoluene	<u>121-14-2</u>	0.32	<u>140</u>
<u>U106</u> 2,6-Dinitrotoluene 2,6-Dinitrotoluene	<u>606-20-2</u>	0.55	<u>28</u>
<u>U107</u> <u>Di-n-octyl phthalate</u> <u>Di-n-octyl phthalate</u>	<u>117-84-0</u>	<u>0.017</u>	<u>28</u>

<u>U108</u> 1,4-Dioxane			
<u>1,4-Dioxane</u>	<u>123-91-1</u>	<u>(WETOX or</u> CHOXD) fb <u>CARBN; or</u> INCIN	<u>CMBST</u>
<u>1,4-Dioxane; alternate⁶ standard for</u> nonwastewaters only	<u>123-91-1</u>	NA	<u>170</u>
<u>U109</u> <u>1,2-Diphenylhydrazine</u> <u>1,2-Diphenylhydrazine</u>	<u>122-66-7</u>	<u>CHOXD; CHRED;</u> CAREN; BIODG;	<u>CHOXD; CHRED;</u> or CMBST
<u>1,2-Diphenylhydrazine;</u> alternate ⁶ standard for wastewaters only	<u>122-66-7</u>	<u>or INCIN</u> 0.087	<u>NA</u>
<u>U110</u> <u>Dipropylamine</u> <u>Dipropylamine</u>	<u>142-84-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U111</u> <u>Di-n-propylnitrosamine</u> <u>Di-n-propylnitrosamine</u>	<u>621-64-7</u>	<u>0.40</u>	<u>14</u>
<u>U112</u> <u>Ethyl acetate</u> <u>Ethyl acetate</u>	<u>141-78-8</u>	<u>0.34</u>	<u>33</u>
<u>U113</u> <u>Ethyl acrylate</u> <u>Ethyl acrylate</u>	<u>140-88-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U114</u> Ethylenebisdithiocarbamic aci	id salts and este	ra	
<u>Ethylenebisdithio-</u> <u>carbamic acid</u>	<u>111-54-6</u>	(WETOX_or CHOXD)_fb CARBN;_or INCIN	INCIN
<u>U115</u> <u>Ethylene oxide</u> <u>Ethylene oxide</u>	<u>75-21-8</u>	(WETOX or CHOXD) fb CARBN; or	<u>CHOXD; or</u> INCIN
<u>Ethylene oxide;</u> alternate ⁶ standard for wastewaters only	<u>75-21-8</u>	INCIN 0.12	<u>NA</u>
<u>U116</u> Ethylene thiourea			

Ethylene thiourea	<u>96-45-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>INCIN</u>
<u>U117</u> <u>Ethyl ether</u> <u>Ethyl ether</u>	<u>60-29-7</u>	0.12	<u>160</u>
<u>U118</u> <u>Ethyl methacrylate</u> <u>Ethyl methacrylate</u>	<u>97-63-2</u>	<u>0.14</u>	<u>160</u>
<u>U119</u> <u>Ethyl methane sulfonate</u> <u>Ethyl methane sulfonate</u>	<u>62–50–0</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>INCIN</u>
<u>U120</u> Fluoranthene Fluoranthene	206-44-0	0.068	<u>3.4</u>
<u>U121</u> <u>Trichloromonofluoromethane</u> <u>Trichloromonofluoro-</u> <u>methane</u>	75-69-4	0.020	<u>30</u>
<u>U122</u> <u>Formaldehyde</u> <u>Formaldehyde</u>	<u>50-00-0</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U123</u> <u>Formic acid</u> <u>Formic acid</u>	<u>64-18-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U124</u> <u>Furan</u> <u>Furan</u>	<u>110-00-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U125</u> <u>Furfural</u> <u>Furfural</u>	<u>98-01-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>

<u>U126</u> Glycidylaldehyde

	570		
<u>Glycidylaldehyde</u>	<u>765-34-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U127</u> <u>Hexachlorobenzene</u> <u>Hexachlorobenzene</u> U128	<u>118-74-1</u>	0.055	<u>10</u>
Hexachlorobutadiene Hexachlorobutadiene	<u>87-68-3</u>	0.055	5.6
<u>U129</u> <u>Lindane</u> <u>alpha-BHC</u> <u>beta-BHC</u> <u>delta-BHC</u> gamma-BHC (Lindane)	<u>319-84-6</u> <u>319-85-7</u> <u>319-86-8</u> <u>58-89-9</u>	0.00014 0.00014 0.023 0.0017	0.066 0.066 0.066 0.066
<u>U130</u> <u>Hexachlorocyclopentadiene</u> <u>Hexachlorocyclopenta-</u> <u>diene</u>	77-47-4	0.057	<u>2.4</u>
<u>U131</u> <u>Hexachloroethane</u> <u>Hexachloroethane</u>	<u>67-72-1</u>	<u>0.055</u>	<u>30</u>
<u>U132</u> <u>Hexachlorophene</u> <u>Hexachlorophene</u>	<u>70-30-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U133</u> <u>Hydrazine</u> <u>Hydrazine</u>	<u>302-01-2</u>	<u>CHOXD; CHRED;</u> CARBN; BIODG; or INCIN	<u>CHOXD; CHRED;</u> or CMBST
<u>U134</u> <u>Hydrogen fluoride</u> <u>Fluoride (measured in</u> <u>wastewaters only)</u>	<u>16964-48-8</u>	<u>35</u>	<u>ADGAS fb</u> <u>NEUTR; or</u> <u>NEUTR</u>
<u>U135</u> <u>Hydrogen sulfide</u> <u>Hydrogen sulfide</u>	<u>7783-06-4</u>	<u>CHOXD; CHRED;</u> or INCIN	<u>CHOXD; CHRED;</u> or INCIN
<u>U136</u> <u>Cacodylic_acid</u> <u>Arsenic</u>	<u>7440-38-2</u>	<u>1.4</u>	5.0 mg/l TCLP
<u>U137</u> <u>Indeno(1,2,3-cd)pyrene</u> <u>Indeno(1,2,3-cd)pyrene</u>	<u>193-39-5</u>	<u>0.0055</u>	<u>3.4</u>

<u>U138</u> <u>Iodomethane</u> <u>Iodomethane</u>	74-88-4	0.19	<u>65</u>
<u>U140</u> <u>Isobutyl alcohol</u> <u>Isobutyl alcohol</u>	<u>78-83-1</u>	5.6	<u>170</u>
<u>U141</u> <u>Isosafrole</u> <u>Isosafrole</u>	<u>120-58-1</u>	0.081	2.6
<u>U142</u> <u>Kepone</u> <u>Kepone</u>	<u>143-50-8</u>	<u>0.0011</u>	<u>0.13</u>
<u>U143</u> <u>Lasiocarpine</u> <u>Lasiocarpine</u>	<u>303-34-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U144</u> <u>Lead_acetate</u> <u>Lead</u>	<u>7439-92-1</u>	0.69	0.37 mg/1 TCLP
<u>U145</u> <u>Lead phosphate</u> <u>Lead</u>	7439-92-1	0.69	0.37 mg/l TCLP
<u>U146</u> <u>Lead subacetate</u> <u>Lead</u>	<u>7439-92-1</u>	0.69	0.37 mg/1 TCLP
<u>U147</u> <u>Maleic anhydride</u> <u>Maleic anhydride</u>	<u>108-31-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U148</u> <u>Maleic hydrazide</u> <u>Maleic hydrazide</u>	<u>123-33-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U149</u> <u>Malononitrile</u> <u>Malononitrile</u>	<u>109-77-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U150</u> <u>Melphalan</u> <u>Melphalan</u>	<u>148-82-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN

<u>U151</u> <u>U151 (mercury) nonwastewaters</u> total mercury.	s that contain gr	eater than or equ	al to 260 mg/kg
Mercury	7439-97-6	NA	RMERC
<u>U151</u> <u>U151 (mercury) nonwastewaters</u> and that are residues from RM		ss than 260 mg/kg	total mercury
Mercury	7439-97-6	<u>NA</u>	0.20 mg/l TCLP
<u>U151</u> <u>U151 (mercury) nonwastewaters</u> and that are not residues fro		ss than 260 mg/kg	total mercury
<u>Mercury</u>	<u>7439-97-6</u>	<u>NA</u>	<u>0.025 mg/l</u> TCLP
<u>U151</u> <u>All U151 (mercury) wastewate</u> <u>Mercury</u>	<u>r.</u> 7439-97-6	<u>0.15</u>	<u>NA</u>
<u>U151</u>			
Element Mercury Contaminated Mercury	<u>7439-97-6</u>	<u>NA</u>	AMLGM
<u>U152</u> <u>Methacrylonitrile</u> <u>Methacrylonitrile</u>	<u>126-98-7</u>	<u>0.24</u>	<u>84</u>
<u>U153</u> <u>Methanethiol</u> <u>Methanethiol</u>	<u>74-93-1</u>	(WETOX or CHOXD) fb CAREN; or	INCIN
<u>U154</u> Methanol		INCIN	
<u>Methanol</u>	<u>67-56-1</u>	<u>(WETOX or</u> CHOXD) fb CARBN; or	<u>CMBST</u>
<u>Methanol; alternate⁶ set</u> of standards for both wastewaters and nonwastewaters	<u>67-56-1</u>	<u>INCIN</u> <u>5.6</u>	0.75 mg/l TCLP
<u>U155</u> <u>Methapyrilene</u> <u>Methapyrilene</u>	<u>91-80-5</u>	<u>0.081</u>	<u>1.5</u>
<u>U156</u> <u>Methyl chlorocarbonate</u> <u>Methyl chlorocarbonate</u>	<u>79-22-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U157</u> <u>3-Methylcholanthrene</u> <u>3-Methylcholanthrene</u>	<u>56-49-5</u>	0.0055	<u>15</u>

<u>U158</u> <u>4,4'-Methylene bis(2-chloroar</u> <u>4,4'-Methylene bis(2-</u> <u>chloroaniline)</u>	<u>iline)</u> 101-14-4	0.50	<u>30</u>
<u>U159</u> <u>Methyl ethyl ketone</u> <u>Methyl ethyl ketone</u>	<u>78-93-3</u>	0.28	<u>36</u>
<u>U160</u> <u>Methyl ethyl ketone peroxide</u> <u>Methyl ethyl ketone</u> <u>peroxide</u>	<u>1338-23-4</u>	<u>CHOXD; CHRED;</u> <u>CARBN; BIODG;</u> <u>or INCIN</u>	<u>CHOXD; CHRED;</u> or CMBST
<u>U161</u> <u>Methyl isobutyl ketone</u> <u>Methyl isobutyl ketone</u>	<u>108-10-1</u>	<u>0.14</u>	<u>33</u>
<u>U162</u> <u>Methyl_methacrylate</u> <u>Methyl_methacrylate</u>	<u>80-62-6</u>	<u>0.14</u>	<u>160</u>
<u>U163</u> <u>N-Methyl-N'-nitro-N-nitrosoqu</u> <u>N-Methyl-N'-nitro-N-</u> <u>nitrosoguanidine</u>	<u>anidine</u> 70-25-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U164</u> <u>Methylthiouracil</u> <u>Methylthiouracil</u>	<u>56-04-2</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U165</u> <u>Naphthalene</u> <u>Naphthalene</u>	<u>91-20-3</u>	<u>0.059</u>	<u>5.6</u>
<u>U166</u> <u>1,4-Naphthoquinone</u> <u>1,4-Naphthoquinone</u>	<u>130-15-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U167</u> <u>1-Naphthylamine</u> <u>1-Naphthylamine</u>	<u>134-32-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U168</u> <u>2-Naphthylamine</u> <u>2-Naphthylamine</u>	<u>91-59-8</u>	0.52	INCIN
<u>U169</u> <u>Nitrobenzene</u> <u>Nitrobenzene</u>	<u>98-95-3</u>	0.068	<u>14</u>

<u>U170</u> <u>p-Nitrophenol</u> <u>p-Nitrophenol</u>	<u>100-02-7</u>	0.12	29
<u>U171</u> <u>2-Nitropropane</u> <u>2-Nitropropane</u>	<u>79-46-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U172</u> <u>N-Nitrosodi-n-butylamine</u> <u>N-Nitrosodi-n-butylamine</u>	<u>924-16-3</u>	<u>0.40</u>	<u>17</u>
<u>U173</u> <u>N-Nitrosodiethanolamine</u> <u>N-Nitrosodiethanolamine</u>	<u>1116-54-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U174</u> <u>N-Nitrosodiethylamine</u> <u>N-Nitrosodiethylamine</u>	<u>55-18-5</u>	<u>0.40</u>	<u>28</u>
<u>U176</u> <u>N-Nitroso-N-ethylurea</u> <u>N-Nitroso-N-ethylurea</u>	<u>759-73-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U177</u> <u>N-Nitroso-N-methylurea</u> <u>N-Nitroso-N-methylurea</u>	<u>684-93-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U178</u> <u>N-Nitroso-N-methylurethane</u> <u>N-Nitroso-N-methyl-</u> <u>urethane</u>	<u>615-53-2</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U179</u> <u>N-Nitrosopiperidine</u> <u>N-Nitrosopiperidine</u>	100-75-4	0.013	<u>35</u>
<u>U180</u> <u>N-Nitrosopyrrolidine</u> <u>N-Nitrosopyrrolidine</u>	<u>930-55-2</u>	<u>0.013</u>	<u>35</u>
<u>U181</u> <u>5-Nitro-o-toluidine</u> <u>5-Nitro-o-toluidine</u> <u>U182</u>	<u>99-55-8</u>	0.32	<u>28</u>

<u>U182</u> Paraldehyde

	501		
<u>Paraldehyde</u>	<u>123-63-7</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U183</u> <u>Pentachlorobenzene</u> <u>Pentachlorobenzene</u> <u>U184</u>	<u>608-93-5</u>	0.055	<u>10</u>
<u>Pentachloroethane</u> <u>Pentachloroethane</u>	<u>76-01-7</u>	(WETOX or CHOXD) fb CARBN; or	INCIN
<u>Pentachloroethane;</u> <u>alternate⁶ standards for</u> <u>both wastewaters and</u> <u>nonwastewaters</u>	<u>76-01-7</u>	<u>INCIN</u> 0.055	<u>6.0</u>
<u>U185</u> <u>Pentachloronitrobenzene</u> <u>Pentachloronitrobenzene</u>	<u>82-68-8</u>	<u>0.055</u>	<u>4.8</u>
<u>U186</u> <u>1,3-Pentadiene</u> <u>1,3-Pentadiene</u>	<u>504-60-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U187</u> <u>Phenacetin</u> <u>Phenacetin</u>	<u>62-44-2</u>	<u>0.081</u>	<u>16</u>
<u>U188</u> <u>Phenol</u> <u>Phenol</u>	<u>108-95-2</u>	0.039	<u>6.2</u>
<u>U189</u> <u>Phosphorus sulfide</u> <u>Phosphorus sulfide</u>	<u>1314-80-3</u>	CHOXD; CHRED; or INCIN	CHOXD; CHRED; or INCIN
<u>U190</u> <u>Phthalic anhydride</u> <u>Phthalic anhydride</u> <u>(measured as Phthalic</u> <u>acid or Terephthalic</u>	<u>100-21-0</u>	0.055	<u>28</u>
<u>acid)</u> Phthalic anhydride	85-44-9	0.055	28
<u>U191</u> <u>2-Picoline</u> <u>2-Picoline</u>	<u>109-06-8</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U192</u> <u>Pronamide</u> <u>Pronamide</u>	<u>23950-58-5</u>	<u>0.093</u>	1.5

<u>U193</u> <u>1,3-Propane sultone</u> <u>1,3-Propane sultone</u>	<u>1120-71-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U194</u> <u>n-Propylamine</u> <u>n-Propylamine</u>	<u>107-10-8</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U196</u> <u>Pyridine</u> <u>Pyridine</u>	<u>110-86-1</u>	<u>0.014</u>	<u>16</u>
<u>U197</u> <u>p-Benzoquinone</u> <u>p-Benzoquinone</u>	<u>106-51-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U200</u> <u>Reserpine</u> <u>Reserpine</u>	<u>50-55-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U201</u> <u>Resorcinol</u> <u>Resorcinol</u>	<u>108-46-3</u>	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
<u>U202</u> <u>Saccharin and salts</u> <u>Saccharin</u>	<u>81-07-2</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U203</u> <u>Safrole</u> <u>Safrole</u>	<u>94–59–7</u>	<u>0.081</u>	<u>22</u>
<u>U204</u> <u>Selenium dioxide</u> <u>Selenium</u>	7782-49-2	<u>0.82</u>	<u>0.16 mg/l TCLP</u>
<u>U205</u> <u>Selenium sulfide</u> <u>Selenium</u>	<u>7782-49-2</u>	0.82	<u>0.16 mg/l TCLP</u>
<u>U206</u> <u>Streptozotocin</u>			

<u>Streptozotocin</u>	<u>18883-66-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U207</u> <u>1,2,4,5-Tetrachlorobenzene</u> <u>1,2,4,5-Tetrachloro-</u> <u>benzene</u>	<u>95-94-3</u>	0.055	<u>14</u>
<u>U208</u> <u>1,1,1,2-Tetrachloroethane</u> <u>1,1,1,2-Tetrachloro-</u> <u>ethane</u>	<u>630-20-6</u>	0.057	<u>6.0</u>
<u>U209</u> <u>1,1,2,2-Tetrachloroethane</u> <u>1,1,2,2-Tetrachloro-</u> <u>ethane</u>	<u>79-34-5</u>	0.057	<u>6.0</u>
<u>U210</u> <u>Tetrachloroethylene</u> <u>Tetrachloroethylene</u>	<u>127-18-4</u>	0.056	<u>6.0</u>
<u>U211</u> <u>Carbon tetrachloride</u> <u>Carbon tetrachloride</u>	<u>56-23-5</u>	<u>0.057</u>	6.0
<u>U213</u> <u>Tetrahydrofuran</u> <u>Tetrahydrofuran</u>	<u>109-99-9</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>CMBST</u>
<u>U214</u> <u>Thallium (I) acetate</u> <u>Thallium (measured in</u> <u>wastewaters only)</u>	<u>7440-28-0</u>	<u>1.4</u>	<u>RTHRM; or</u> <u>STABL</u>
<u>U215</u> <u>Thallium (I) carbonate</u> <u>Thallium (measured in</u> <u>wastewaters only)</u>	7440-28-0	<u>1.4</u>	<u>RTHRM; or</u> <u>STABL</u>
<u>U216</u> <u>Thallium (I) chloride</u> <u>Thallium (measured in</u> <u>wastewaters only)</u>	<u>7440-28-0</u>	<u>1.4</u>	<u>RTHRM; or</u> <u>STABL</u>
<u>U217</u> <u>Thallium (I) nitrate</u> <u>Thallium (measured in</u> <u>wastewaters only)</u>	<u>7440-28-0</u>	<u>1.4</u>	<u>RTHRM; or</u> STABL
<u>U218</u> <u>Thioacetamide</u> <u>Thioacetamide</u>	<u>62-55-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN

<u>U219</u> <u>Thiourea</u> <u>Thiourea</u>	<u>62-56-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	<u>INCIN</u>
<u>U220</u> <u>Toluene</u> <u>Toluene</u>	<u>108-88-3</u>	<u>0.080</u>	<u>10</u>
<u>U221</u> <u>Toluenediamine</u> <u>Toluenediamine</u>	<u>25376-45-8</u>	<u>CARBN; or</u> INCIN	CMBST
<u>U222</u> <u>o-Toluidine hydrochloride</u> <u>o-Toluidine hydro-</u> <u>chloride</u>	<u>636-21-5</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U223</u> <u>Toluene diisocyanate</u> <u>Toluene diisocyanate</u>	<u>26471-62-5</u>	<u>CARBN; or</u> <u>INCIN</u>	CMBST
<u>U225</u> <u>Bromoform (Tribromomethane)</u> <u>Bromoform (Tribromo-</u> <u>methane)</u>	<u>75-25-2</u>	0.63	<u>15</u>
<u>U226</u> 1,1,1-Trichloroethane 1,1,1-Trichloroethane	71-55-6	<u>0.054</u>	<u>6.0</u>
<u>U227</u> <u>1,1,2-Tricloroethane</u> <u>1,1,2-Tricloroethane</u>	79-00-5	0.054	<u>6.0</u>
<u>U228</u> <u>Trichloroethylene</u> <u>Trichloroethylene</u>	<u>79-01-6</u>	<u>0.054</u>	6.0
<u>U234</u> <u>1,3,5-Trinitrobenzene</u> <u>1,3,5-Trinitrobenzene</u>	<u>99-35-4</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U235</u> <u>tris-(2,3-Dibromopropyl)-phos</u> <u>tris-(2,3-Dibromo-</u> <u>propyl)-phosphate</u>	<u>phate</u> <u>126-72-7</u>	0.11	<u>0.10</u>

<u>U236</u> Trypan Blue

	385		
<u>Trypan Blue</u>	<u>72-57-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U237</u> <u>Uracil mustard</u> <u>Uracil mustard</u>	<u>66-75-1</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U238</u> <u>Urethane (Ethyl carbamate)</u> <u>Urethane (Ethyl</u> <u>carbamate)</u>	<u>51-79-6</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U239</u> <u>Xylenes</u> <u>Xylenes-mixed isomers</u> (sum of o-, m-, and p- xylene concentrations)	<u>1330-20-7</u>	<u>0.32</u>	<u>30</u>
<u>U240</u> 2,4-D (2,4-Dichlorophenoxyace 2,4-D (2,4-Dichloro- phenoxyacetic acid) 2,4-D (2,4-Dichloro- phenoxyacetic acid) salts and esters	<u>94-75-7</u> <u>NA</u>	<u>0.72</u> (WETOX or CHOXD) fb CARBN; or INCIN	<u>10</u> INCIN
<u>U243</u> <u>Hexachloropropylene</u> <u>Hexachloropropylene</u>	<u>1888-71-7</u>	0.035	<u>30</u>
<u>U244</u> <u>Thiram</u> <u>Thiram</u>	<u>137-26-8</u>	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
<u>U246</u> <u>Cyanogen bromide</u> <u>Cyanogen bromide</u>	<u>506-68-3</u>	<u>CHOXD; WETOX;</u> or INCIN	<u>CHOXD; WETOX;</u> or INCIN
<u>U247</u> <u>Methoxychlor</u> <u>Methoxychlor</u>	<u>72-43-5</u>	0.25	0.18
<u>U248</u> <u>Warfarin, & salts, when prese</u> <u>Warfarin</u>	ent at concentrat <u>81-81-2</u>	ions of 0.3% or 1 (WETOX or CHOXD) fb CARBN; or INCIN	<u>ess</u> <u>CMBST</u>

<u>U249</u>

Zinc phosphide, Zn ₃ P ₂ , when		ntrations of 10% or	
Zinc Phosphide	<u>1314-84-7</u>	<u>CHOXD; CHRED;</u> or INCIN	<u>CHOXD; CHRED;</u> or INCIN
		<u>92 18018</u>	<u>or mom</u>
<u>U328</u> <u>o-Toluidine</u>			
<u>o-Toluidine</u>	<u>95-53-4</u>	INCIN; or	INCIN; or
		<u>CHOXD fb</u> (BIODG or	<u>Thermal</u> Destruction
		CARBN); or	<u>5000140010</u>
		BIODG fb CARBN	
<u>U353</u>			
<u>p-Toluidine</u> <u>p-Toluidine</u>	106-49-0	INCIN; or	INCIN; or
		CHOXD fb	Thermal Destruction
		(BIODG or CARBN); or	Destruction
		BIODG fb CARBN	
<u>U359</u>			
<u>2-Ethoxyethanol</u> <u>2-Ethoxyethanol</u>	110-80-5	INCIN; or	CMBST
<u>z schozycchanor</u>	<u>110 00 J</u>	CHOXD fb	
		(BIODG or CARBN); or	
		BIODG fb CARBN	

Notes:

- 1 The waste descriptions provided in this table do not replace waste descriptions in 35 Ill. Adm. Code 721. Descriptions of Treatment or Regulatory Subcategories are provided, as needed, to distinguish between applicability of different standards.
- 2 CAS means Chemical Abstract Services. When the waste code or regulated constituents are described as a combination of a chemical with its salts or esters, the CAS number is given for the parent compound only.
- <u>3</u> <u>Concentration standards for wastewaters are expressed in mg/l are based</u> on analysis of composite samples.
- 4 All treatment standards expressed as a Technology Code or combination of Technology Codes are explained in detail in 35 Ill. Adm. Code 728.Table C, "Technology Codes and Descriptions of Technology-Based Standards". "fb" inserted between waste codes denotes "followed by", so that the first-listed treatment is followed by the second-listed treatment. ";" separates alternative treatement schemes.
- 5 Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 35 Ill. Adm. Code 724.Subpart O or 35 Ill. Adm. Code 725.Subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 35 Ill. Adm. Code 728.140(d). All concentration standards for nonwastewaters are based on analysis of grab samples.
- 6 Where an alternate treatment standard or set of alternate standards has

been indicated, a facility may comply with this alternate standard, but only for the Treatment or Regulatory Subcategory or physical form (i.e., wastewater or nonwastewater) specified for that alternate standard.

7 Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical or Chemical Methods", U.S. EPA Publication SW-846, as incorporated by reference in 35 Ill. Adm. Code 720.111, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

NA means not applicable.

(Source: Added at 19 Ill. Reg. ____, effective _____)

Section 728.Table U Universal Treatment Standards (UTS)

<u>Requlated Constituent-</u> Common Name	CAS ¹ No.	<u>Wastewater</u> <u>Standard</u> <u>Concentration</u> (in mg/l ²)	Nonwastewater Standard Concentration (in mg/kg ³ unless noted as "mg/l TCLP")
Acenaphthylene	<u>208-96-8</u>	0.059	<u>3.4</u>
Acenaphthene	83-32-9	0.059	<u>3.4</u>
<u>Acetone</u>	67-64-1	0.28	<u>160</u>
Acetonitrile	75-05-8	<u>5.6</u>	1.8
Acetophenone	<u>96-86-2</u>	0.010	<u>9.7</u>
2-Acetylaminofluorene	<u>53-96-3</u>	0.059	<u>140</u>
Acrolein	107-02-8	0.29	NA
<u>Acrylamide</u>	<u>79-06-1</u>	<u>19</u>	<u>23</u>
Acrylonitrile	<u>107-13-1</u>	0.24	<u>84</u>
Aldrin	<u>309-00-2</u>	0.021	0.066
<u>4-Aminobiphenyl</u>	<u>92-67-1</u>	0.13	NA
Aniline	<u>62-53-3</u>	0.81	<u>14</u>
Anthracene	120-12-7	0.059	<u>3.4</u>
Aramite	140-57-8	0.36	<u>NA</u>
alpha-BHC	<u>319-84-6</u>	0.00014	0.066
beta-BHC	<u>319-85-7</u>	0.00014	0.066
<u>delta-BHC</u>	<u>319-86-8</u>	0.023	0.066
gamma-BHC	<u>58-89-9</u>	0.0017	0.066
Benzene	<u>71-43-2</u>	0.14	<u>10</u>

	500		
<u>Benz(a)anthracene</u>	<u>56-55-3</u>	0.059	3.4
Benzal chloride	<u>98-87-3</u>	0.055	6.0
<u>Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)</u>	<u>205-99-2</u>	<u>0.11</u>	<u>6.8</u>
<u>Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)</u>	<u>207–08–9</u>	<u>0.11</u>	<u>6.8</u>
<pre>Benzo(q,h,i)perylene</pre>	<u>191-24-2</u>	0.0055	1.8
<u>Benzo(a)pyrene</u>	<u>50-32-8</u>	0.061	3.4
Bromodichloromethane	75-27-4	0.35	<u>15</u>
<u>Methyl bromide (Bromo-</u> methane)	74-83-9	0.11	<u>15</u>
<u>4-Bromophenyl phenyl</u> <u>ether</u>	<u>101-55-3</u>	0.055	<u>15</u>
<u>n-Butyl alcohol</u>	71-36-3	5.6	2.6
Butyl benzyl phthalate	85-68-7	0.017	<u>28</u>
<u>2-sec-Butyl-4,6-dinitro-</u> phenol (Dinoseb)	<u>88-85-7</u>	0.066	2.5
<u>Carbon disulfide</u>	75-15-0	3.8	4.8 mg/l TCLP
<u>Carbon tetrachloride</u>	56-23-5	0.057	6.0
<u>Chlordane (alpha and gamma isomers)</u>	<u>57-74-9</u>	0.0033	0.26
<u>p-Chloroaniline</u>	106-47-8	0.46	<u>16</u>
<u>Chlorobenzene</u>	108-90-7	0.057	6.0
<u>Chlorobenzilate</u>	<u>510-15-6</u>	0.10	<u>NA</u>
<u>2-Chloro-1,3-butadiene</u>	126-99-8	0.057	0.28
Chlorodibromomethane	124-48-1	0.057	<u>15</u>
<u>Chloroethane</u>	75-00-3	0.27	6.0
<u>bis(2-Chloro-</u> ethoxy)methane	<u>111-91-1</u>	0.036	<u>7.2</u>
<u>bis(2-Chloroethyl)ether</u>	111-44-4	0.033	6.0
<u>Chloroform</u>	<u>67-66-3</u>	0.046	<u>6.0</u>
<u>bis(2-Chloro-</u> isopropyl)ether	<u>108-60-1</u>	0.055	7.2

	565		
p-Chloro-m-cresol	<u>59-50-7</u>	<u>0.018</u>	<u>14</u>
<u>2-Chloroethyl vinyl</u> ether	<u>110-75-8</u>	0.062	<u>NA</u>
<u>Chloromethane (Methyl</u> <u>chloride)</u>	<u>74-87-3</u>	<u>0.19</u>	<u>30</u>
2-Chloronaphthalene	<u>91-58-7</u>	0.055	5.6
2-Chlorophenol	<u>95-57-8</u>	0.044	5.7
<u>3-Chloropropylene</u>	<u>107-05-1</u>	0.036	<u>30</u>
Chrysene	218-01-9	0.059	3.4
<u>o-Cresol</u>	95-48-7	0.11	5.6
<u>m-Cresol (difficult to distinguish from p- cresol)</u>	<u>108-39-4</u>	<u>0.77</u>	5.6
<u>p-Cresol (difficult to distinguish from m- cresol)</u>	<u>106-44-5</u>	0.77	<u>5.6</u>
Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP
<u>1,2-Dibromo-3-chloro-</u> propane	<u>96-12-8</u>	<u>0.11</u>	<u>15</u>
<u>Ethylene dibromide</u> (1,2-Dibromoethane)	106-93-4	0.028	<u>15</u>
Dibromomethane	74-95-3	0.11	<u>15</u>
2,4-D (2,4-Dichloro- phenoxyacetic acid)	<u>94-75-7</u>	<u>0.72</u>	<u>10</u>
o,p'-DDD	<u>53-19-0</u>	0.023	0.087
p,p'-DDD	72-54-8	0.023	0.087
o,p'-DDE	3424-82-6	0.031	0.087
p,p'-DDE	<u>72-55-9</u>	0.031	0.087
o,p'-DDT	<u>789-02-6</u>	0.0039	0.087
p,p'-DDT	<u>50-29-3</u>	0.0039	0.087
<u>Dibenz(a,h)anthracene</u>	<u>53-70-3</u>	0.055	8.2
<u>Dibenz(a,e)pyrene</u>	<u>192-65-4</u>	0.061	NA
m-Dichlorobenzene	<u>541-73-1</u>	0.036	<u>6.0</u>
<u>o-Dichlorobenzene</u>	<u>95-50-1</u>	0.088	6.0
<u>p-Dichlorobenzene</u>	106-46-7	0.090	<u>6.0</u>
Dichlorodifluoromethane	75-71-8	0.23	7.2

	570		
1,1-Dichloroethane	75-34-3	0.059	6.0
1,2-Dichloroethane	107-06-2	0.21	6.0
1,1-Dichloroethylene	75-35-4	0.025	6.0
<u>trans-1,2-Dichloro-</u> ethylene	<u>156-60-5</u>	0.054	<u>30</u>
2,4-Dichlorophenol	<u>120-83-2</u>	0.044	<u>14</u>
2,6-Dichlorophenol	87-65-0	0.044	<u>14</u>
1,2-Dichloropropane	78-87-5	0.85	<u>18</u>
<u>cis-1,3-Dichloro-</u> propylene	<u>10061-01-5</u>	0.036	<u>18</u>
<u>trans-1,3-Dichloro-</u> propylene	<u>10061-02-6</u>	0.036	<u>18</u>
Dieldrin	<u>60-57-1</u>	0.017	<u>0.13</u>
<u>Diethyl phthalate</u>	84-66-2	0.20	<u>28</u>
2,4-Dimethyl phenol	105-67-9	0.036	14
<u>Dimethyl phthalate</u>	<u>131-11-3</u>	0.047	<u>28</u>
<u>Di-n-butyl phthalate</u>	84-74-2	0.057	<u>28</u>
1,4-Dinitrobenzene	100-25-4	<u>0.32</u>	2.3
4,6-Dinitro-o-cresol	534-52-1	0.28	<u>160</u>
2,4-Dinitrophenol	<u>51-28-5</u>	0.12	160
2,4-Dinitrotoluene	121-14-2	0.32	<u>140</u>
2,6-Dinitrotoluene	606-20-2	0.55	<u>28</u>
<u>Di-n-octyl phthalate</u>	<u>117-84-0</u>	0.017	<u>28</u>
<u>p-Dimethylaminoazo-</u> <u>benzene</u>	<u>60-11-7</u>	<u>0.13</u>	<u>NA</u>
<u>Di-n-propylnitrosamine</u>	621-64-7	0.40	<u>14</u>
1,4-Dioxane	<u>123-91-1</u>	<u>NA</u>	<u>170</u>
<u>Diphenylamine (difficult to distinguish from diphenylnitrosamine)</u>	<u>122-39-4</u>	0.92	<u>13</u>
<u>Diphenylnitrosamine (difficult to distinguishfrom diphenylamine)</u>	<u>86-30-6</u>	<u>0.92</u>	<u>13</u>
1,2-Diphenylhydrazine	122-66-7	0.087	<u>NA</u>
Disulfoton	298-04-4	0.017	<u>6.2</u>

<u>Endosulfan I</u>	<u>939-98-8</u>	0.023	0.066
<u>Endosulfan II</u>	<u>33213-6-5</u>	0.029	0.13
<u>Endosulfan sulfate</u>	<u>1-31-07-8</u>	0.029	<u>0.13</u>
Endrin	72-20-8	0.0028	0.13
Endrin aldehyde	7421-93-4	0.025	0.13
Ethyl acetate	<u>141-78-6</u>	0.34	<u>33</u>
<u>Ethyl cyanide</u> <u>(Propanenitrile)</u>	<u>107-12-0</u>	<u>0.24</u>	<u>360</u>
Ethyl benzene	100-41-4	0.057	<u>10</u>
Ethyl ether	60-29-7	0.12	<u>160</u>
<u>bis(2-Ethylhexyl)</u> phthalate	<u>117-81-7</u>	0.28	<u>28</u>
<u>Ethyl methacrylate</u>	97-63-2	0.14	<u>160</u>
Ethylene oxide	75-21-8	0.12	<u>NA</u>
Famphur	52-85-7	0.017	<u>15</u>
Fluoranthene	206-44-0	0.068	3.4
Fluorene	<u>86-73-7</u>	0.059	3.4
Heptachlor	76-44-8	0.0012	0.066
Heptachlor epoxide	<u>1024-57-3</u>	0.016	0.066
<u>Hexachlorobenzene</u>	<u>118-74-1</u>	0.055	<u>10</u>
<u>Hexachlorobutadiene</u>	87-68-3	0.055	5.6
<u>Hexachloro-</u> cyclopentadiene	77-47-4	0.057	2.4
<u>HxCDDs (All Hexachloro- dibenzo-p-dioxins)</u>	<u>NA</u>	0.000063	0.001
<u>HxCDFв (All Hexachloro- dibenzofurans)</u>	<u>NA</u>	0.000063	0.001
<u>Hexachloroethane</u>	<u>67-72-1</u>	0.055	<u>30</u>
<u>Hexachloropropylene</u>	<u>1888-71-7</u>	0.035	<u>30</u>
<u>Indeno (1,2,3-c,d)</u> pyrene	<u>193-39-5</u>	0.0055	<u>3.4</u>
Iodomethane	74-88-4	0.19	<u>65</u>
Isobutyl alcohol	<u>78-83-1</u>	5.6	<u>170</u>
Isodrin	465-73-6	0.021	0.066

<u>Isosafrole</u>	<u>120-58-1</u>	<u>0.081</u>	2.6
	<u>143-50-8</u>	0.0011	<u>0.13</u>
<u>Kepone</u> <u>Methacrylonitrile</u>	<u>145-50-8</u> 126-98-7		
		0.24	<u>84</u>
<u>Methanol</u>	<u>67-56-1</u>	5.6	0.75 mg/1 TCLP
Methapyrilene	<u>91-80-5</u>	0.081	<u>1.5</u>
Methoxychlor	72-43-5	0.25	0.18
<u>3-Methylcholanthrene</u>	<u>56-49-5</u>	0.0055	<u>15</u>
<u>4,4-Methylene bis(2-</u> chloroaniline)	<u>101-14-4</u>	0.50	<u>30</u>
<u>Methylene chloride</u>	75-09-2	0.089	<u>30</u>
<u>Methyl ethyl ketone</u>	<u>78-93-3</u>	0.28	<u>36</u>
<u>Methyl isobutyl ketone</u>	<u>108-10-1</u>	<u>0.14</u>	<u>33</u>
<u>Methyl methacrylate</u>	80-62-6	<u>0.14</u>	<u>160</u>
<u>Methyl methansulfonate</u>	<u>66-27-3</u>	0.018	NA
Methyl parathion	298-00-0	0.014	4.6
Naphthalene	91-20-3	0.059	5.6
<u>2-Naphthylamine</u>	<u>91-59-8</u>	0.52	<u>NA</u>
<u>o-Nitroaniline</u>	88-74-4	0.27	<u>14</u>
<u>p-Nitroaniline</u>	100-01-6	0.028	28
Nitrobenzene	<u>98-95-3</u>	0.068	<u>14</u>
5-Nitro-o-toluidine	99-55-8	0.32	28
<u>o-Nitrophenol</u>	<u>88-75-5</u>	0.028	<u>13</u>
p-Nitrophenol	100-02-7	0.12	<u>29</u>
N-Nitrosodiethylamine	<u>55-18-5</u>	0.40	28
<u>N-Nitrosodimethylamine</u>	<u>62-75-9</u>	0.40	2.3
<u>N-Nitroso-di-n-butyl-</u> amine	<u>924-16-3</u>	<u>0.40</u>	<u>17</u>
<u>N-Nitrosomethylethyl-</u> amine	<u>10595-95-6</u>	<u>0.40</u>	2.3
N-Nitrosomorpholine	<u>59-89-2</u>	<u>0.40</u>	2.3
<u>N-Nitrosopiperidine</u>	<u>100-75-4</u>	0.013	35
<u>N-Nitrosopyrrolidine</u>	930-55-2	0.013	<u>35</u>
<u>Parathion</u>	56-38-2	0.014	4.6

<u>Total PCBs (sum of all PCB isomers, or all Aroclors)</u>	<u>1336-36-3</u>	0.10	<u>10</u>
Pentachlorobenzene	<u>608-93-5</u>	0.055	<u>10</u>
<u>PeCDDs (All Pentachloro- dibenzo-p-dioxins)</u>	<u>NA</u>	0.000063	<u>0.001</u>
<u>PeCDFs (All Pentachloro-</u> dibenzofurans)	<u>NA</u>	0.000035	<u>0.001</u>
Pentachloroethane	76-01-7	0.055	6.0
<u>Pentachloronitrobenzene</u>	82-68-8	0.055	<u>4.8</u>
Pentachlorophenol	87-86-5	0.089	7.4
Phenacetin	<u>62-44-2</u>	0.081	<u>16</u>
<u>Phenanthrene</u>	<u>85-01-8</u>	<u>0.059</u>	5.6
Phenol	<u>108-95-2</u>	0.039	<u>6.2</u>
Phorate	<u>298-02-2</u>	0.021	4.6
Phthalic acid	100-21-0	<u>0.055</u>	<u>28</u>
Phthalic anhydride	85-44-9	0.055	<u>28</u>
Pronamide	23950-58-5	<u>0.093</u>	<u>1.5</u>
Pyrene	<u>129-00-0</u>	0.067	8.2
Pyridine	<u>110-86-1</u>	<u>0.014</u>	<u>16</u>
Safrole	<u>94-59-7</u>	0.081	<u>22</u>
Silvex (2,4,5-TP)	<u>93-72-1</u>	0.72	7.9
<u>2,4,5-T</u> <u>(2,4,5-Trichloro-</u> phenoxyacetic acid)	<u>93-76-5</u>	0.72	<u>7.9</u>
<u>1,2,4,5-Tetrachloro-</u> <u>benzene</u>	<u>95-94-3</u>	0.055	<u>14</u>
<u>TCDDs (All Tetrachloro-</u> dibenzo-p-dioxins)	<u>NA</u>	0.000063	<u>0.001</u>
<u>TCDFs (All Tetrachloro-</u> dibenzofurans)	<u>NA</u>	0.000063	<u>0.001</u>
<u>1,1,1,2-Tetrachloro-</u> <u>ethane</u>	<u>630-20-6</u>	0.057	<u>6.0</u>
<u>1,1,2,2-Tetrachloro-</u> ethane	<u>79-34-6</u>	0.057	<u>6.0</u>
<u>Tetrachloroethylene</u>	<u>127-18-4</u>	0.056	6.0

	594		
2,3,4,6-Tetrachloro- phenol	<u>58-90-2</u>	0.030	7.4
Toluene	<u>108-88-3</u>	0.080	<u>10</u>
Toxaphene	8001-35-2	0.0095	2.6
<u>Bromoform (Tribromo-</u> methane)	<u>75-25-2</u>	0.63	<u>15</u>
1,2,4-Trichlorobenzene	<u>120-82-1</u>	0.055	<u>19</u>
1,1,1-Trichloroethane	<u>71-55-6</u>	0.054	<u>6.0</u>
1,1,2-Trichloroethane	<u>79-00-5</u>	0.054	<u>6.0</u>
Trichloroethylene	<u>79-01-6</u>	0.054	<u>6.0</u>
<u>Trichloromonofluoro-</u> methane	75-69-4	0.020	<u>30</u>
2,4,5-Trichlorophenol	<u>95-95-4</u>	<u>0.18</u>	7.4
2,4,6-Trichlorophenol	<u>88-06-2</u>	0.035	<u>7.4</u>
1,2,3-Trichloropropane	<u>96-18-4</u>	0.85	<u>30</u>
<u>1,1,2-Trichloro-1,2,2-</u> trifluoroethane	<u>76-13-1</u>	0.057	<u>30</u>
<u>tris-(2,3-Dibromopropyl)</u> phosphate	<u>126-72-7</u>	<u>0.11</u>	0.10
Vinyl chloride	75-01-4	0.27	<u>6.0</u>
<u>Xylenes-mixed isomers</u> (sum of o-, m-, and p- xylene concentrations)	<u>1330-20-7</u>	0.32	<u>30</u>
Antimony	7440-36-0	<u>1.9</u>	2.1 mg/l TCLP
Arsenic	7440-38-2	<u>1.4</u>	5.0 mg/l TCLP
Barium	7440-39-3	1.2	7.6 mg/l TCLP
Beryllium	7440-41-7	0.82	0.014 mg/l TCLP
Cadmium	7440-43-9	0.69	0.19 mg/1 TCLP
<u>Chromium (Total)</u>	7440-47-3	2.77	0.86 mg/l TCLP
Cyanides (Total) ⁴	<u>57-12-5</u>	1.2	<u>590</u>
Cyanides (Amenable) ⁴	<u>57-12-5</u>	0.86	<u>30</u>
Fluoride	16964-48-8	<u>35</u>	<u>NA</u>
Lead	<u>7439-92-1</u>	0.69	0.37 mg/l TCLP
<u>Mercury-Nonwastewater</u> from Retort	<u>7439-97-6</u>	NA	0.20 mg/l TCLP

Mercury-All Others	7439-97-6	0.15	0.025 mg/l TCLP
Nickel	7440-02-0	<u>3.98</u>	5.0 mg/l TCLP
Selenium	7782-49-2	0.82	0.16 mg/l TCLP
Silver	7440-22-4	0.43	0.30 mg/l TCLP
Sulfide	<u>8496-25-8</u>	<u>14</u>	NA
<u>Thallium</u>	7440-28-0	1.4	0.078 mg/l TCLP
<u>Vanadium⁵</u>	7440-62-2	<u>4.3</u>	0.23 mg/l TCLP
Zinc ⁵	7440-66-6	2.61	5.3 mg/l TCLP

- <u>1</u> <u>CAS means Chemical Abstract Services. When the waste code or regulated</u> <u>constituents are described as a combination of a chemical with its salts</u> <u>or esters, the CAS number is given for the parent compound only.</u>
- <u>2</u> <u>Concentration standards for wastewaters are expressed in mg/l are based</u> on analysis of composite samples.
- <u>3</u> Except for metals (EP or TCLP) and cyanides (total and amenable), the nonwastewater treatment standards expressed as a concentration were established, in part, based on incineration in units operated in accordance with the technical requirements of 35 Ill. Adm. Code 724.Subpart O or 35 Ill. Adm. Code 725.Subpart O or on combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.
- <u>4</u> Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", U.S. EPA Publication SW-846, incorporated by reference in 35 Ill. Adm. Code 720.111, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.
- 5 Vanadium and zinc are not "underlying hazardous constituents" in characteristic wastes, according to the definition at Section 728.102(i).

Note: NA means not applicable.

(Source: Added at 19 Ill. Reg. ____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER d: UNDERGROUND INJECTION CONTROL AND UNDERGROUND STORAGE TANK PROGRAMS

PART 730 UNDERGROUND INJECTION CONTROL OPERATING REQUIREMENTS

SUBPART A: GENERAL

Section

730.101 Applicability, Scope and Effective Date

- 730.102 Laws Authorizing Regulations
- 730.103 Definitions
- Criteria for Exempted Aquifers 730.104
- Classification of Injection Wells 730.105
- 730.106 Area of Review
- 730.107 Corrective Action
- Mechanical Integrity 730.108
- 730.109 Criteria for Establishing Permitting Priorities
- Plugging and Abandoning Class I and Class III Wells 730.110

SUBPART B: CRITERIA AND STANDARDS APPLICABLE TO CLASS I NON-HAZARDOUS WELLS

- Section 730.111
- Applicability 730.112
- Construction Requirements
- 730.113 Operating, Monitoring and Reporting Requirements
- 730.114 Information to be Considered by the Agency

SUBPART C: CRITERIA AND STANDARDS APPLICABLE TO CLASS II WELLS

- Section
- 730.121 Adoption of Criteria and Standards Applicable to Class II Wells by the Illinois Department of Mines and Minerals

SUBPART D: CRITERIA AND STANDARDS APPLICABLE TO CLASS III WELLS

Section

Section

- 730.131 Applicability
- Construction Requirements 730.132
- Operating, Monitoring, and Reporting Requirements 730.133
- 730.134 Information to be Considered by the Agency

SUBPART F: CRITERIA AND STANDARDS APPLICABLE TO CLASS V INJECTION WELLS

- Section 730.151 Applicability
- 730.152 Inventory and Assessment (Repealed)

SUBPART G: CRITERIA AND STANDARDS APPLICABLE TO CLASS I HAZARDOUS WELLS

- Applicability and Definitions 730.161
- Minimum Criteria for Siting 730.162
- 730.163 Area of Review
- Correction Action for Wells in the Area of Review 730.164
- 730.165 Construction Requirements
- Logging, Sampling, and Testing Prior to New Well Operation 730.166
- 730.167 **Operating Requirements**
- 730.168 Testing and Monitoring Requirements
- 730.169 Reporting Requirements
- Information to be Evaluated by the Director 730.170
- Closure 730.171
- Post-Closure Care 730.172
- 730.173 Financial Responsibility for Post-Closure Care

AUTHORITY: Implementing Sections 13 and 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/13, 22.4, and 27].

SOURCE: Adopted in R81-32, 47 PCB 93, at 6 Ill. Reg. 12479, effective March 3, 1984; amended in R82-19, 53 PCB 131 at 7 Ill. Reg. 14426, effective March 3, 1984; recodified at 10 Ill. Reg. 14174; amended in R89-2 at 14 Ill. Reg. 3130, effective February 20, 1990; amended in R89-11 at 14 Ill. Reg. 11959,

effective July 9, 1990; amended in R93-6 at 17 Ill. Reg. 15646, effective September 14, 1993; amended in R94-5 at 18 Ill. Reg. 18391, effective December 20, 1994; amended in R95-4 at 19 Ill. Reg. _____, effective

SUBPART A: GENERAL

Section 730.104 Criteria for Exempted Aquifers

An aquifer or a portion thereof which that meets the criteria for an "underground source of drinking water" in Section 730.103 may be determined by the Board under 35 Ill. Adm. Code 704.103, 704.123, and 702.105 to be an "exempted aquifer" if it meets the following criteria:

- a) It does not currently serve as a source of drinking water; and
- b) It cannot now and will not in the future serve as a source of drinking water because:
 - 1) It is mineral, hydrocarbon, or geothermal energy producing, or can be demonstrated by a permit applicant <u>can</u> <u>demonstrate</u>, as part of a permit application for a Class II or III operationinjection well, that the aquifer to contains minerals or hydrocarbons that considering their quantity and <u>location</u> are expected to be commercially producible <u>consid</u>ering their quantity and location;
 - It is situated at a depth or location which that makes recovery of water for drinking water purposes economically or technologically impractical;
 - 3) It is so contaminated that it would be economically or technologically impractical to render that water fit for human consumption; or
 - 4) It is located over a Class III well mining area subject to subsidence or catastrophic collapse; or
- c) The total dissolved solids content of the groundwater is more than 3,000 and less than 10,000 mg/1 and <u>the aquifer</u> is not reasonably expected to supply a public water system.

(Source: Amended at 19 Ill. Reg. , effective)

Section 730.105 Classification of Injection Wells

Injection wells are classified as follows:

- a) Class I.
 - Wells used by generators of hazardous wastes or owners or operators of hazardous waste management facilities to inject hazardous waste beneath the lowermost formation containing₇ within 402 meters (1/4 mile) of the well bore₇ an underground source of drinking water within 402 meters (1/4 mile) of the well bore.
 - 2) Other industrial and municipal disposal wells which that inject fluids beneath the lowermost formation containing, within 402 meters (1/4 mile) of the well bore, an underground source of drinking water_within 402 meters (1/4

mile) of the well bore.

- b) Class II. Wells which that inject fluids:
 - WhichThat are brought to the surface in connection with conventional oil or natural gas production and <u>which</u> may be commingled with wastewaters from gas plants <u>whichthat</u> are an integral part of production operations, unless those waters are classified as a hazardous waste at the time of injection;
 - 2) For enhanced recovery of oil or natural gas; and
 - For storage of hydrocarbons which that are liquid at standard temperature and pressure.
- c) Class III. Wells which<u>that</u> inject for extraction of minerals, including:
 - 1) Mining of sulfur by the Frasch process;
 - 2) In situ production of uranium or other metals. This category includes only in situ production from ore bodies whichthat have not been conventionally mined. Solution mining of conventional mines, such as stopes leaching, is included in Class V+; and
 - 3) Solution mining of salts or potash.

(Board NoteBOARD NOTE: Class III wells include the recovery of geothermal energy to produce electric power but do not include wells used in heating or aquaculture whichthat fall under Class V.+

- d) Class IV.
 - 1) Wells used by generators of hazardous waste or of radioactive waste, by owners or operators of hazardous waste management facilities, or by owners or operators of radioactive waste disposal sites to dispose of hazardous waste or radioactive waste into a formation which that within 402 meters (1/4 mile) of the well contains an underground source of drinking water within 402 meters (1/4 mile) of the well.
 - 2) Wells used by generators of hazardous waste or of radioactive waste, by owners or operators of hazardous waste management facilities, or by owners or operators of radioactive waste disposal sites to dispose of hazardous waste or radioactive waste above a formation whichthat within 402 meters (1/4 mile) of the well contains an underground source of drinking water within 402 meters (1/4 mile) of the well.
 - 3) Wells used by generators of hazardous waste or owners or operators of hazardous waste management facilities to dispose of hazardous waster which that cannot be classified under 35 Ill. Adm. Code 730.105 subsection (a)(1), or 730.105(d)(1), andor (d)(2) above (e.g., wells used to dispose of hazardous wastes into or above a formation which that contains an aquifer which that has been exempted pursuant to 35 Ill. Adm. CodeSection 730.104).

- e) Class V. Injection wells not included in Class I, <u>Class</u> II, <u>Class</u> III, <u>Class</u> III, <u>Class</u> IV. Class V wells include:
 - Air conditioning return flow wells used to return the water used in a heat pump for heating or cooling to the supply aquifer the water used for heating or cooling in a heat pump;
 - 2) Cesspools, including multiple dwelling, community, or regional cesspools, or other devices that receive wastes, whichthat have an open bottom and sometimes have perforated sides. The UIC requirements do not apply to single family residential cesspools or to non-residential cesspools whichthat receive solely sanitary wastes and have the capacity to serve fewer than 20 persons a day;
 - Cooling water return flow wells used to inject water previously used for cooling;
 - Drainage wells used to drain surface fluid, primarily storm runoff, into a subsurface formation;
 - Dry wells used for the injection of wastes into a subsurface formation;
 - 6) Recharge wells used to replenish the water in an aquifer;
 - 7) Salt water intrusion barrier wells used to inject water into a fresh water aquifer to prevent the intrusion of salt water into the fresh water;
 - 8) Sand backfill and other backfill wells used to inject a mixture of water and sand, mill tailings, or other solids into mined out portions of subsurface mines whether what is injected is a radioactive waste or not;
 - 9) Septic system wells used to inject the waste or effluent from a multiple dwelling, business establishment, community, or regional business establishment septic tank. The UIC requirements do not apply to single family residential septic system wells, or to nonresidential septic system wells which that are used solely for the disposal of sanitary waste and which have the capacity to serve fewer than 20 persons a day-;
 - 10) Subsidence control wells (not used for the purpose of oil or natural gas production) used to inject fluids into a non-oil or gas producing zone to reduce or eliminate subsidence associated with the overdraft of fresh water;
 - 11) Radioactive waste disposal wells other than Class IV_wells;
 - 12) Injection wells associated with the recovery of geothermal energy for heating, aquaculture or production of electric power;
 - Wells used for solution mining of conventional mines such as stopes leaching;
 - 14) Wells used to inject spent brine into the same formation from which it was withdrawn after extraction of halogens or their salts; and

15) Injection wells used in experimental technologies.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

Section 730.110 Plugging and Abandoning Class I and Class III Wells

- a) Prior to abandoning a Class I or <u>Class</u> III well, the well shall be plugged with cement in a manner which that will not allow the movement of fluids either into or between underground sources of drinking water. The Agency may allow Class III wells to use other plugging materials if it is satisfied that such materials will prevent movement of fluids into or between underground sources of drinking water.
- b) Placement of the cement plugs shall be accomplished by one of the following:
 - 1) The Balance Method;
 - 2) The Dump Bailer Method; or
 - 3) The Two-Plug Method; or
 - 4) An alternative method approved by the Agency in the permit_r which<u>that</u> will reliably provide a comparable level of protection to underground sources of drinking water.
- c) The well to be abandoned <u>shallmust</u> be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Agency, prior to the placement of the cement plug.
- d) The plugging and abandonment required in 35 Ill. Adm. Code 704.188 and 704.187 shall, must also demonstrate adequate protection of <u>USDWs</u> in the case of a Class III projectwell which that underlies or is in an aquifer which that has been exempted under Section 730.104, also demonstrate adequate protection of USDWs. The Agency shall prescribe aquifer cleanup and monitoring where it deems it necessary and feasible to insure adequate protection of USDWs.

(Source: Amended at 19 Ill. Reg. , effective)

SUBPART D: CRITERIA AND STANDARDS APPLICABLE TO CLASS III WELLS

Section 730.132 Construction Requirements

- a) All new Class III wells shallmust be cased and cemented to prevent the migration of fluids into or between underground sources of drinking water. The Agency may waive the cementing requirements for new wells in existing projects or portions of existing projects where it has substantial evidence that no contamination of underground sources of drinking water would result. The casing and cement used in the construction of each newly drilled well shallmust be designed for the life expectancy of the well. In determining and specifying casing and cementing requirements, the following factors shallmust be considered:
 - 1) Depth to the injection zone;

- 2) Injection pressure, external pressure, internal pressure, axial loading, etc.;
- 3) Hole size;
- 4) Size and grade of all casing strings (wall thickness, diameter, nominal weight, length, joint specification, and construction material);
- 5) Corrosiveness of injected fluids and formation fluids;
- 6) Lithology of injection and confining zones; and
- 7) Type and grade of cement.
- Appropriate logs and other tests shallmust be conducted during the b) drilling and construction of new Class III wells. A descriptive report interpreting the results of such logs and tests shallmust be prepared by a knowledgeable log analyst and submitted to the Agency. The logs and tests appropriate to each type of Class III well shallmust be determined based on the intended function, depth, construction, and other characteristics of the well τ ; availability of similar data in the area of the drilling site; and the need for additional information that may arise from time to time as the construction of the well progresses. Deviation checks shallmust be conducted on all holes where pilot holes and reaming are used, unless the hole will be cased and cemented by circulating cement to the surface. Where deviation checks are necessary they shallmust be conducted at sufficiently frequent intervals to assure that vertical avenues for fluid migration in the form of diverging holes are not created during drilling.
- c) Where the injection zone is a formation which<u>that</u> is naturally water-bearing, the following information concerning the injection zone shallmust be determined or calculated for new Class III wells or projects:
 - 1) Fluid pressure;
 - 2) Fracture pressure; and
 - Physical and chemical characteristics of the formation fluids.
- d) Where the injection formation is not a water-bearing formation, the information in <u>paragraphsubsection</u> (c)(2) <u>above</u> must be submitted.
- e) Where injection is into a formation which that contains water with less than 10,000 mg/1 TDS, monitoring wells shall be completed into the injection zone and into any underground sources of drinking water above the injection zone which that could be affected by the mining operation. These wells shall be located in such a fashion as to detect any excursion of injection fluids, process by-products, or formation fluids outside the mining area or zone. If the operation may be affected by subsidence or catastrophic collapse, the monitoring wells shall be located so that they will not be physically affected.
- f) Where injection is into a formation which that does not contain water with less than 10,000 mg/l TDS, no monitoring wells are necessary in the injection stratum.

g) Where the injection wells penetrate an USDW in an area subject to subsidence or catastrophic collapse, an adequate number of monitoring wells shallmust be completed into the USDW to detect any movement of injected fluids, process by-products, or formation fluids into the USDW. The monitoring wells shallmust be located outside the physical influence of the subsidence or catastrophic collapse.

- h) In determining the number, location, construction and frequency of monitoring of the monitoring wells the following criteria shallmust be considered:
 - The population relying on the USDW affected or potentially affected by the injection operation;
 - The proximity of the injection operation to points of withdrawal of drinking water;
 - 3) The local geology and hydrology;
 - 4) The operating pressures and whether a negative pressure gradient is being maintained;
 - 5) The nature and volume of the injected fluid, the formation water, and the process by-products; and
 - 6) The injection well density.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

Section 730.133 Operating, Monitoring, and Reporting Requirements

- a) Operating Requirements. Operating requirements prescribed shallmust, at a minimum, specify that:
 - 1) Except during well stimulation, injection pressure at the wellhead shallmust be calculated so as to assure that the pressure in the injection zone during injection does not initiate new fractures or propagate existing fractures in the injection zone. In no case shall injection pressure initiate fractures in the confining zone or cause the migration of injection or formation fluids into an underground source of drinking water.
 - Injection between the outermost casing protecting underground sources of drinking water and the well bore is prohibited.
- b) Monitoring Requirements. Monitoring requirements shall, at a minimum, specify:
 - 1) Monitoring of the nature of injected fluids with sufficient frequency to yield representative data on its characteristics. Whenever the injection fluid is modified to the extent that the analysis required by Section 730.134(a)(7)(C) is incorrect or incomplete, the owner or operator shall provide the Agency with a new analysis as required by Section 730.134(a)(7)(C);
 - Monitoring of injection pressure and either flow rate or volume semimonthly, or metering and daily recording of injected and produced fluid volumes, as appropriate;

- 3) Demonstration of mechanical integrity pursuant to Section 730.108 at least once every five years during the life of the well for salt solution mining;
- 4) Monitoring of the fluid level in the injection zone semimonthly, where appropriate, and monitoring of the parameters chosen to measure water quality in the monitoring wells required by Section 730.132(e) semi-monthly; and
- 5) Quarterly monitoring of wells required by Section 730.132(g).
- 6) All Class III wells may be monitored on a field or project basis, rather than <u>on</u> an individual well basis, by manifold monitoring. Manifold monitoring may be used in cases of facilities consisting of more than one injection well, operating with a common manifold. Separate monitoring systems for each well are not required provided the owner, <u>or</u> operator demonstrates that manifold monitoring is comparable to individual well monitoring.
- c) Reporting Requirements. Reporting requirements shall, at a minimum, include:
 - 1) Quarterly reporting to the Agency on required monitoring;
 - 2) Results of mechanical integrity and any other periodic test required by the Agency reported with the first regular quarterly report after the completion of the test; and
 - 3) Monitoring may be reported on a project or field basis rather than individual well basis where manifold monitoring is used.

(Source: Amended at 19 Ill. Reg. _____, effective _____)

SUBPART F: CRITERIA AND STANDARDS APPLICABLE TO CLASS V INJECTION WELLS

Section 730.151 Applicability

This Subpart sets forth criteria and standards for underground injection control programs to regulate all injection not regulated in <u>730.Subparts B</u>, D, and E. Class II wells, however, are not regulated by this Subpart.

- a) Generally, wells covered by this Subpart inject non-hazardous fluids into or above formations that contain underground sources of drinking water. It includes all wells listed in Section 730.105(e) but is not limited to those types of injection wells.
- b) It also includes wells not covered in Class IV that inject radioactive materials listed in 10 CFR 20, Appendix B, Table II, Column 2.

(Source: Amended at 19 Ill. Reg. ____, effective _____)

SUBTITLE G: WASTE DISPOSAL CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER d: UNDERGROUND INJECTION CONTROL AND UNDERGROUND STORAGE TANK PROGRAMS

PART 738 HAZARDOUS WASTE INJECTION RESTRICTIONS

SUBPART A: GENERAL

Section	
738.101	Purpose Scope and Applicability
738.102	Definitions
738.103	Dilution Prohibited as a Substitute for Treatment
738.104	Case-by-Case Extensions of an Effective Date
738.105	Waste Analysis

Section

Section

SUBPART B: PROHIBITIONS ON INJECTION

-	20 110	17	Constant for a	Duchibibi		Columns Monton
1	38.110					Solvent Wastes
7	38.111					Dioxin-Containing Wastes
7	38.112	Waste	Specific	Prohibitions		California List Wastes
7	38.114	Waste	Specific	Prohibitions	-	First Third Wastes
7	38.115	Waste	Specific	Prohibitions	-	Second Third Wastes
7	38.116	Waste	Specific	Prohibitions		Third Third Wastes
7	38.117	Waste	Specific	Prohibitions	-	Newly-Listed Wastes

SUBPART C: PETITION STANDARDS AND PROCEDURES

Deccion	
738.120	Petitions to Allow Injection of a Prohibited Waste
738.121	Required Information to Support Petitions
738.122	Submission, Review and Approval or Denial of Petitions
738.123	Review of Adjusted Standards
738.124	Termination of Adjusted Standards

AUTHORITY: Implementing Section 13 and 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/13, 22.4 and 27].

SOURCE: Adopted in R89-2 at 14 Ill. Reg. 3059, effective February 20, 1990; amended in R89-11 at 14 Ill. Reg. 11948, effective July 9, 1990; amended in R90-14 at 15 Ill. Reg. 11425, effective July 24, 1991; amended in R92-13 at 17 Ill. Reg. 6190, effective April 5, 1993; amended in R93-6 at 17 Ill. Reg. 15641, effective September 14, 1993; amended in R95-4 at 19 Ill. Reg. ______, effective ______.

SUBPART B: PROHIBITIONS ON INJECTION

Section 738.117 Waste Specific Prohibitions - Newly-Listed Wastes

a) The wastes specified in 35 Ill. Adm. Code 721.Subpart D by the following <u>U.S. EPA</u> <u>Hh</u>azardous <u>Ww</u>aste numbers are prohibited from underground injection:

F037 F038 K107 K108 K109 K110 K111 K112 K117 K118 K123 K124 K125 K126 405

K131 K136 U328 U353 U359

b) The wastes specified in 35 Ill. Adm. Code 721.Subpart D by the following U.S. EPA hazardous waste numbers are prohibited from underground injection:

K141 K142 K143 K144 K145 K147 K148 K149 K150 K151

<u>c)</u> Effective September 19, 1995, the wastes specified in 35 Ill. Adm. Code 721.Subpart C by the following U.S. EPA hazardous waste numbers are prohibited from underground injection:

D001	(high	TOC	subcate	gory,	as	specified	at	35	Ill.
Adm.	Code	728.1	40)						
D012									
D013									
D014									
D015									
D016									
D017									

bd) Effective June 30, 1995, the wastes specified in 35 Ill. Adm. Code 721.Subpart D by the following <u>U.S. EPA</u> <u>Hhazardous</u> <u>Wwaste</u> numbers are prohibited from underground injection:

 $e_{\underline{e}}$) The requirements of subsections (a) and (b) above do not apply:

- If the wastes meet or are treated to meet the applicable standards specified in 35 Ill. Adm. Code 728.Subpart D; or
- If an adjusted standard has been granted in response to a petition under <u>738.</u>Subpart C-of this Part; or
- 3) During the period of extension of the applicable effective date, if an extension is granted under Section 738.104.

BOARD NOTE: Derived from 40 CFR 148.17, as added at 57 Fed. Reg. 37263 (Aug. 18, 1992).

(Source: Amended at 19 Ill. Reg. ____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE G: WASTE DISPOSAL

CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 739 STANDARDS FOR THE MANAGEMENT OF USED OIL

SUBPART A: DEFINITIONS

739.100 Definitions

SUBPART B: APPLICABILITY

- Section 739.110 Applicability
- 739.111 Used oil specifications
- 739.112 Prohibitions

SUBPART C: STANDARDS FOR USED OIL GENERATORS

- 739.120 Applicability
- 739.121 Hazardous waste mixing
- 739.122 Used oil storage
- 739.123 On-site burning in space heaters
- 739.124 Off-site shipments

SUBPART D: STANDARDS FOR USED OIL COLLECTION CENTERS AND AGGREGATION POINTS

Section

Section

Section

- 739.130 Do-it-yourselfer used oil collection centers
- 739.131 Used oil collection centers
- 739.132 Used oil aggregate points owned by the generator

SUBPART E: STANDARDS FOR USED OIL TRANSPORTER AND TRANSFER FACILITIES

Section

739.140 Applicability

- 739.141 Restrictions on transporters that are not also processors
- 739.142 Notification
- 739.143 Used oil transportation
- 739.144 Rebuttable presumption for used oil
- 739.145 Used oil storage at transfer facilities
- 739.146 Tracking
- 739.147 Management of residues

SUBPART F: STANDARDS FOR USED OIL PROCESSORS

- Section 739.150 Applicability
- 739.151 Notification
- 739.152 General facility standards
- 739.153 Rebuttable presumption for used oil
- 739.154 Used oil management
- 739.155 Analysis plan
- 739.156 Tracking
- 739.157 Operating record and reporting
- 739.158 Off-site shipments of used oil
- 739.159 Management of residues

SUBPART G: STANDARDS FOR USED OIL BURNERS THAT BURN OFF-SPECIFICATION USED OIL FOR ENERGY RECOVERY

Section

- 739.160 Applicability
- 739.161 Restriction on burning
- 739.162 Notification

739.163 Rebuttable presumption for used oil

- 739.164 Used oil storage
- 739.165 Tracking 739.166 Notices
- 739.167 Management of residues

SUBPART H: STANDARDS FOR USED OIL FUEL MARKETERS

- Section 739.170 Applicability
- 739.171 Prohibitions
- 739.172 On-specification used oil fuel
- 739.173 Notification
- 739.174 Tracking
- 739.175 Notices

SUBPART I: STANDARDS FOR USE AS A DUST SUPPRESSANT DISPOSAL OF USED OIL Section 739.180 Applicability 739.181 Disposal 739.182 Use as a dust suppressant

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/22.4 and 27].

SOURCE: Adopted in R93-4 at 17 Ill. Reg. 20954, effective November 22, 1993; amended in R93-16 at 18 Ill. Reg. 6931, effective April 26, 1994; amended in R94-17 at 18 Ill. Reg. 17616, effective November 23, 1994; amended in R95-6 at 19 Ill. Reg. _____, effective ______.

SUBPART B: APPLICABILITY

Section 739.110 Applicability

This Section identifies those materials which are subject to regulation as used oil under this Part. This Section also identifies some materials that are not subject to regulation as used oil under this Part, and indicates whether these materials may be subject to regulation as hazardous waste under Parts 702, 703, 720 through 726, and 728.

- a) Used oil. U.S. EPA presumes that used oil is to be recycled unless a used oil handler disposes of used oil, or sends used oil for disposal. Except as provided in Section 739.111, the regulations of this Part apply to used oil, and to materials identified in this Section as being subject to regulation as used oil, whether or not the used oil or material exhibits any characteristics of hazardous waste identified in 35 Ill. Adm. Code 721.Subpart C.
- b) Mixtures of used oil and hazardous waste.
 - 1) Listed hazardous waste.
 - A) A mixture of used oil and hazardous waste that is listed in 35 Ill. Adm. Code 721.Subpart D is subject to regulation as hazardous waste under 35 Ill. Adm. Code 703, 720 through 726, and 728, rather than as used oil under this Part.
 - B) Rebuttable presumption for used oil. Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste because it has been

mixed with halogenated hazardous waste listed in 35 Ill. Adm. Code 721.Subpart D. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by using an analytical method from SW-846, Edition III, to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in 35 Ill. Adm. Code 721.Appendix H). U.S. EPA Publication SW-846, Third Edition, is available from the Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, (202) 783-3238 (document number 955-001-00000-1).

- i) The rebuttable presumption does not apply to metalworking oils or fluids containing chlorinated paraffins, if they are processed, through a tolling arrangement as described in Section 739.124(c), to reclaim metalworking oils or fluids. The presumption does apply to metalworking oils or fluids if such oils or fluids are recycled in any other manner, or disposed.
- ii) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.
- 2) Characteristic hazardous waste. A mixture of used oil and hazardous waste that exhibits a hazardous waste characteristic identified in 35 Ill. Adm. Code 721.Subpart C and a mixture of used oil and hazardous waste that is listed in Subpart D of this Part solely because it exhibits one or more of the characteristics of hazardous waste identified in 35 Ill. Adm. Code 721.Subpart C is subject to:
 - A) Except as provided in subsection (b)(2)(C) of this Section, regulation as hazardous waste under 35 Ill.
 Adm. Code 703, 720 through 726, and 728 rather than as used oil under this Part, if the resultant mixture exhibits any characteristics of hazardous waste identified in 35 Ill. Adm. Code 721.Subpart C; or
 - B) Except as provided in subsection (b)(2)(C) of this Section, regulation as used oil under this Part, if the resultant mixture does not exhibit any characteristics of hazardous waste identified under 35 Ill. Adm. Code 721.Subpart C.
 - C) Regulation as used oil under this Part, if the mixture is of used oil and a waste which is hazardous solely because it exhibits the characteristic of ignitability (e.g., ignitable-only mineral spirits), provided that the resultant mixture does not exhibit the characteristic of ignitability under 35 Ill. Adm. Code 721.121.

3) Conditionally exempt small quantity generator hazardous

waste. A mixture of used oil and conditionally exempt small quantity generator hazardous waste regulated under 35 Ill. Adm. Code 721.105 is subject to regulation as used oil under this Part.

- c) Materials containing or otherwise contaminated with used oil.
 - 1) Except as provided in subsection (c)(2) of this Section, a material containing or otherwise contaminated with used oil from which the used oil has been properly drained or removed to the extent possible such that no visible signs of freeflowing oil remain in or on the material:
 - A) Is not used oil, and thus, it is not subject to this Part, and
 - B) If applicable, is subject to the hazardous waste regulations of 35 Ill. Adm. Code 703, 705, 720 through 726, and 728.
 - 2) A material containing or otherwise contaminated with used oil that is burned for energy recovery is subject to regulation as used oil under this Part.
 - 3) Used oil drained or removed from materials containing or otherwise contaminated with used oil is subject to regulation as used oil under this Part.
- d) Mixtures of used oil with products.
 - Except as provided in subsection (d)(2) below, mixtures of used oil and fuels or other fuel products are subject to regulation as used oil under this Part.
 - 2) Mixtures of used oil and diesel fuel mixed on-site by the generator of the used oil for use in the generator's own vehicles are not subject to this Part once the used oil and diesel fuel have been mixed. Prior to mixing, the used oil is subject to the requirements of Subpart C of this Part.
- e) Materials derived from used oil.
 - Materials that are reclaimed from used oil that are used beneficially and are not burned for energy recovery or used in a manner constituting disposal (e.g., re-refined lubricants) are:
 - A) Not used oil and thus are not subject to this Part, and
 - B) Not solid wastes and are thus not subject to the hazardous waste regulations of Parts 35 Ill. Adm. Code 703, 720 through 726, and 728 as provided in 35 Ill. Adm. Code 721.103($e_{\underline{e}}$)($2\underline{1}$)(A).
 - 2) Materials produced from used oil that are burned for energy recovery (e.g., used oil fuels) are subject to regulation as used oil under this Part.
 - 3) Except as provided in subsection (e)(4) below, materials derived from used oil that are disposed of or used in a manner constituting disposal are:

- A) Not used oil and thus are not subject to this Part, and
- B) Are solid wastes and thus are subject to the hazardous waste regulations of 35 Ill. Adm. Code 703, 720 through 726, and 728 if the materials are listed or identified as hazardous waste.
- 4) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products are not subject to this Part.
- f) Wastewater. Wastewater, the discharge of which is subject to regulation under either Section 402 or Section 307(b) of the Clean Water Act (including wastewaters at facilities which have eliminated the discharge of wastewater), contaminated with de minimis quantities of used oil are not subject to the requirements of this Part. For purposes of this subsection, "de minimis" quantities of used oils are defined as small spills, leaks, or drippings from pumps, machinery, pipes, and other similar equipment during normal operations or small amounts of oil lost to the wastewater treatment system during washing or draining operations. This exception will not apply if the used oil is discarded as a result of abnormal manufacturing operations resulting in substantial leaks, spills, or other releases, or to used oil recovered from wastewaters.
- g) Used oil introduced into crude oil pipelines or a petroleum refining facility.
 - 1) Used oil mixed with crude oil or natural gas liquids (e.g., in a production separator or crude oil stock tank) for insertion into a crude oil pipeline is exempt from the requirements of this Part. The used oil is subject to the requirements of this Part prior to the mixing of used oil with crude oil or natural gas liquids.
 - 2) Mixtures of used oil and crude oil or natural gas liquids containing less than 1% used oil that are being stored or transported to a crude oil pipeline or petroleum refining facility for insertion into the refining process at a point prior to crude distillation or catalytic cracking are exempt from the requirements of this Part.
 - 3) Used oil that is inserted into the petroleum refining process before crude distillation or catalytic cracking without prior mixing with crude oil is exempt from the requirements of this Part, provided that the used oil contains less than 1% of the crude oil feed to any petroleum refining facility process unit at any given time. Prior to insertion into the petroleum refining process, the used oil is subject to the requirements of this Part.
 - 4) Except as provided in subsection (g)(5) below, used oil that is introduced into a petroleum refining facility process after crude distillation or catalytic cracking is exempt from the requirements of this Part only if the used oil meets the specification of Section 739.111. Prior to insertion into the petroleum refining facility process, the used oil is subject to the requirements of this Part.
 - 5) Used oil that is incidentally captured by a hydrocarbon

recovery system or wastewater treatment system as part of routine process operations at a petroleum refining facility and inserted into the petroleum refining facility process is exempt from the requirements of this Part. This exemption does not extend to used oil that is intentionally introduced into a hydrocarbon recovery system (e.g., by pouring collected used oil into the wastewater treatment system).

- 6) Tank bottoms from stock tanks containing exempt mixtures of used oil and crude oil or natural gas liquids are exempt from the requirements of this Part.
- h) Used oil on vessels. Used oil produced on vessels from normal shipboard operations is not subject to this Part until it is transported ashore.
- i) Used oil containing PCBs. In addition to the requirements of this Part, a marketer or burner of used oil that markets used oil containing any quantifiable level of PCBs is subject to the requirements of 40 CFR 761.20(e).

(Source: Amended at 19 Ill. Reg. _____, effective _____)