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***De Minimis* Discharges Study**

Report to Congress

De Minimis Discharges Study

REPORT TO CONGRESS

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EXECUTIVE SUMMARY

The objective of this report is to determine whether there are point source discharges into navigable waters that, in terms of volume, concentration, and type of pollutant, are not significant, and to determine the most effective and appropriate methods of regulating any such discharges. This report is required by Section 516 of the Water Quality Act of 1987.

This Report to Congress addresses the requirements of Section 516 by identifying potential *de minimis* discharges and recommending effective and appropriate methods of regulating those discharges. The Report includes five major elements: (1) legislative history and background, (2) classification of *de minimis* discharges, (3) regulatory options, (4) unit resource and cost savings of the regulatory options; and (5) recommendations.

Legislative History and Background

In 1972 under the Federal Water Pollution Control Act Amendments (FWPCA), the National Pollutant Discharge Elimination System (NPDES) was established. The NPDES Program requires all point source discharges of pollutants to have a permit (except as provided in Section 404 of the Water Quality Act, which regulates dredge and fill activities). Considerable resources for both permitting agencies and permittees are involved in the NPDES permit process. Permits for major discharges average 30 pages, consume four months' processing time, and cost thousands of dollars to issue.

Since 1972, approximately 65,000 dischargers in the United States have been issued NPDES permits, which require renewal at a maximum of five-year intervals. EPA and State

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permitting agencies are faced with an increasing backlog of permits that have expired and should be reissued. EPA has always been concerned about how to set priorities for permit writing. The Agency has grappled with this problem in a number of ways. One of the first steps EPA took in setting priorities was to classify all discharges as either major or minor. Confronted with the enormous task of reviewing permits for major point source discharges, EPA and State agencies have not been able to act on over 10,000 permit applications and numerous permit renewals, nearly all of which are minor point source discharges.

In 1982, during public hearings before Congress, modifications to the NPDES permit regulations that address insignificant discharges were suggested as possible amendments to the FWPCA. During these hearings, the term *de minimis* was used to reflect insignificant discharges. The *de minimis* concept under the NPDES program was further discussed during public hearings before Congress in 1983 and 1985. In 1987, Congress passed the Water Quality Act, which mandated this study of *de minimis* discharges in lieu of amending NPDES permit requirements for such discharges.

Classification of *De Minimis* Discharges

Potential *de minimis* discharges are classified in this report through a two-part process using readily available data and supporting information from permitting authorities. The first part screens the potential number of *de minimis* discharges by evaluating the type of facility, type of effluent, current Federal effluent regulations, and permit limitations. This initial screening had to be conducted on a very limited data base since most permitting and compliance monitoring activities have concentrated on major discharges, which by definition are not *de minimis*. Because the data on most minor facilities are limited, entire groups of dischargers were screened out from the category of potential *de minimis* if there was reason to conclude that a group of permittees contained at least a reasonable number of dischargers that could not be considered *de minimis*. The Agency approached the *de minimis*

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classification in this manner to avoid overestimating the number of *de minimis* discharges. As a result, the projected number of potential *de minimis* discharges may be underestimated; some facilities that were categorically excluded could be determined to qualify as *de minimis* if it were possible to examine them on a case-by-case basis. The second part applies site-specific criteria to confirm that the discharges are insignificant. Based on the initial screening, the number of facilities classified in this study as potentially *de minimis* is projected nationwide.

Screening and Evaluation of Discharges

The first part of the classification procedure evaluated and sorted NPDES facilities into four categories:

- **Primary Industrial Facilities:** Primary industries are considered to have a high potential for toxic pollutant discharges. All primary facilities are excluded from *de minimis*.
- **Sewage Treatment Facilities:** Facilities classified as sewage treatment facilities have a high potential for toxic pollutant discharges, ammonia, and chlorine, as well as pathogens. Consequently, all sewage treatment facilities are excluded from *de minimis*.
- **Unknown Facilities:** All facilities with incomplete or insufficient data that could not be classified in any industrial category are considered to be potential dischargers of toxic pollutants for the purposes of this study and are excluded from *de minimis*.
- **Secondary Facilities:** Secondary facilities were categorized into three groups: (1) facilities with significant potential for toxics in their discharge; (2) facilities with effluent guidelines; and (3) all others. Facilities classified as "all others" were further classified into facilities with permit limitations for any toxics, ammonia, or chlorine and facilities projected to be potential *de minimis*.

Application of Site-Specific Criteria

Once a facility is categorized as potential *de minimis*, the second part of the classification procedure would apply site-specific criteria, used by the Agency’s Office of Wastewater Enforcement and Compliance (OWEC) for major/minor designations, to confirm a facility as *de minimis*. This portion of the procedure would be performed by the permitting authorities. The criteria address six characteristics of the discharge:

- Toxic pollutant discharge;
- Flow/stream flow volume;
- Conventional pollutants;
- Public health impact;
- Water quality factors; and
- Proximity to near coastal waters.

Nationwide Projections

An estimated 893 facilities (1.2 percent of all active NPDES facilities) are projected, as a group, to be potentially *de minimis*, applying the classification system previously discussed (See Table 1). Each facility would require site-specific evaluation before being confirmed as insignificant in terms of volume, concentration, and pollutant type.

Table 1
Projection of Potential *De Minimis* Discharges

<u>Facility Type</u>	<u>Active NPDES Facilities</u>		<u>Potential <i>De Minimis</i></u>	
	Number	Percent	Number	Percent
Primary Industrial	17,463	23.4	0	-.-
Sewage Treatment	21,073	28.3	0	-.-
Unknown	4,031	5.4	0	-.-
Secondary Facilities	<u>31,958</u>	42.9	<u>893</u>	1.2
TOTAL	74,525		893	

Regulatory Options of *De Minimis* Discharges

De minimis discharges may be suitable for alternative regulatory approaches.

Existing regulatory options include the standard NPDES program (including model permits) and the general permit. Possible alternative regulatory options that would require statutory change include the ten-year permit, over-the-counter permits, exclusion by waiver from the NPDES program, and the national rule approach. These options are described below:

- **Model Permit:** Uses an "example" standard permit to reduce burden. Requires complete application and processing.
- **General Permit:** Extends broad coverage for a class of similar discharges. Contains many of the standard permit provisions at a considerable reduction in administrative burden. Requires review by EPA Region and/or Headquarters.
- **Ten-Year Permit:** Extends the lifetime of the permit from 5 to 10 years. Requires a statutory change. Difficulties perceived in responding to changes in effluent, regulations, etc.
- **Over-the-Counter Permits:** Abbreviates application and permit process. (Applicants receive same-day or 24-hour service.) May require statutory change. Difficulties perceived in maintaining public notice and establishing suitable Regional/State permitting procedures.
- **Exclusion by Waiver from the NPDES Program:** Excludes certain categories of discharges from NPDES. Requires a statutory change and case-by-case designations. May eliminate some discharges from regulation; possible water quality impacts.

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- **National Rule:** Allows the instantaneous regulation of large groups of *de minimis* discharges by coverage under a general rule. The rule would state coverage of specified activities and corresponding national standards (similar to EPA National Ambient Air Quality Standards) that would apply to the facility. Requires confirmation of *de minimis* status. A Notice of Intent may also be required.

Unit Resource and Cost Savings of Regulatory Options

Analyses were conducted to determine the potential unit savings in resources (person-hours) and costs attributable to the alternative regulatory options. These addressed only savings for permitting agencies (EPA and approved States); savings for industry and other permittees were not considered. Primary data were obtained from two sources: (1) the 1986 North Carolina Effort and Cost of Permitting Study, which outlines the permit steps and effort involved in a standard/model permit program; and (2) the 1987 EPA Permit Issuance Workload Model, which predicts levels of effort involved in permitting various discharges. Supporting information was obtained from the EPA Regional permitting authorities and State permitting agencies.

In comparing the projected resources (person-hours) and costs of the various alternative regulatory options, unit (per plant) governmental savings are as follows:

	<u>Resource (%)</u>	<u>Cost (%)</u>
1. Exclusion by Waiver	92	94
2. General Permit	20	23
3. Over-the-Counter Permit	19	22
4. Ten-Year Permit	16	17

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Savings are in relation to the Standard/Model (baseline) Permit requiring an estimated 147 person-hours and \$1,807 per facility over a 5 year term.

The national rule approach was not evaluated since it requires that classes of discharges be confirmed as *de minimis* before any site-specific investigations are conducted. EPA's limited data base on these potential *de minimis* discharges prevents this confirmation.

Recommendations

An estimated 893 facilities (1.2 percent of all active NPDES facilities) belong to industrial types that can readily be projected as potentially *de minimis*. In part, because it is the best regulatory option available under current law, the general permit is recommended as the most effective and appropriate method of regulating these discharges (Table 2). Although a prudently managed system for exclusion by waiver or a national permit by rule approach for *de minimis* discharges may ultimately offer the greatest savings to government and the economy, quite possibly at little risk to the environment, those options are not available under current law. General permits can be issued with unit resource and cost savings of 20 and 23 percent, respectively. No statutory change is required as general permit regulations were promulgated in 1979. General permits are currently used by a number of EPA Regions and approved States with noted success in reducing the burden for permitting agencies. A positive consensus was received from EPA Regional and State permitting authorities on the applicability of general permits. However, the general permit will be effective only if the number of potential *de minimis* discharges within a specified geographical or political boundary is adequate to make the permit administratively worthwhile. (General permits are rulemakings that require substantial data gathering on the part of permitting agencies.) In such cases where the general permit is not effective, individual 5 year permits would be appropriate based on standard "models" issued by EPA as guidance. Model permits can be

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Table 2
Summary of Regulatory Option Evaluations

Permitting Option	Statutory/ Regulatory Change	Utilization	Unit Savings		Positive Consensus from Permitting Authorities
			Resource (Percent)	Cost (Percent)	
General Permit	No	28 NPDES States plus 16 non-NPDES States or Territories	20	23	Yes
Ten-Year Permit	Yes	California non-NPDES extended-life permits	16	17	Yes
Over-the-Counter Permit	Maybe	New Jersey for non-NPDES permits	19	22	No
Exclusion by Waiver	Yes	California for land discharges (non-NPDES)	92	94	Yes

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helpful by giving generic permit requirements and guidelines for certain types of discharges. This template can then be tailored to a specific discharge with less burden than it takes to develop a permit from scratch.

INTRODUCTION

The objective of this study is to determine whether there are point source discharges into navigable waters that, in terms of volume, concentration, and type of pollutant, are not significant (i.e., *de minimis*). The Agency is required to submit a Report to Congress on the results of the study, along with recommendations concerning the most effective and appropriate methods of regulating such discharges. This study was required by Congress in lieu of revisions to this aspect of the National Pollutant Discharge Elimination System (NPDES).

As established by Section 402(a)(1) of the Clean Water Act (CWA), all point source discharges of pollutants to navigable waters must have a NPDES permit (except as provided in Section 404 which regulates dredge and fill activities). The time and resources involved in the NPDES permit process are considerable for both the regulatory agency and industry. Permits for major discharges average 30 pages, consume 4 months' processing time, and cost thousands of dollars to issue.

Since 1972, approximately 65,000 NPDES permits have been issued, which require renewal at a maximum of five-year intervals. EPA and State permitting agencies are faced with an increasing backlog of permits that have expired and should be reissued. EPA has always been concerned about how to set priorities for permit writing. The Agency has grappled with this problem in a number of ways. One of the first steps EPA took in setting priorities was to classify all discharges as either major or minor. Confronted with the enormous task of reviewing permits for major point source discharges, the EPA and State

agencies have not acted on over 10,000 permit applications and numerous permit renewals, the majority of which are minor point source discharges.

If discharges are *de minimis*, based on concentration, volume, and type of discharge, and do not significantly impact water quality, regulatory options may be recommended to reduce their regulatory/administrative burden on the regulatory agencies as well as industry. Resources could then be concentrated on permit compliance rather than permit administration.

Chapter One of this report provides background information on the evolution of the *De Minimis* Discharge Study. The legislative history is presented, beginning with the 1982 public record, which mentions excluding "insignificant discharges" from the requirements of NPDES permits. A description of the Regional/State survey conducted for this study is also included.

Chapter Two presents the data and information pertinent to classifying a discharge as *de minimis* using criteria established by the Agency. The methodology and data sources used in the assessment are discussed. The assessment was severely hampered by the lack of data since most permitting and compliance monitoring activities have concentrated on major discharges, which, by definition, are not *de minimis*. The specific criteria used in the classifications, such as Standard Industrial Classification (SIC) code and effluent characteristics, are defined. The chapter concludes with a classification of potential *de minimis* discharges.

Chapter Three discusses existing regulatory options currently in use and other potential regulatory options compiled by the Agency. Regulatory options are described and evaluated.

Chapter Four assesses the potential unit cost savings to permitting agencies in terms of resources and dollars that could be attributed to the alternative regulatory options used to permit *de minimis* discharges. The development of a permitting resource model is discussed, and unit savings to government are projected and evaluated for each regulatory option. This chapter concludes with a comparison of savings.

Chapter Five presents the conclusions and recommendations of the Agency. It provides an overview on the Agency's findings, as well as recommendations concerning the most effective and appropriate methods of regulating *de minimis* discharges.

Various appendices are attached to this report, providing more detail on the specific issues and options addressed in the main text. Appendix A presents, in chronological order, all information found in the public records concerning the legislative evolution of the study of *de minimis* discharges. Appendix B provides the questionnaire used to survey permitting authorities on the types or categories of discharges that could be considered *de minimis*, as well as to recommend regulatory options. Appendices C and D summarize the results of the Study's survey of Regional and State permitting authorities. Appendices E through J contain additional information on the classification of *de minimis* discharges. Appendix K provides a summary of the States approved to issue permits under the standard NPDES program. Appendix L provides general permit information, including current program status and a listing of categories currently covered by general permits. Appendix M includes the North Carolina Case Study on the Effort and Cost of Permitting. Appendix N presents the EPA workload model that estimates outputs, workloads, and resources for various types of NPDES permits.

Chapter One

BACKGROUND

LEGISLATIVE HISTORY

The evolution of the *De Minimis* Discharges Study was obtained from the *Congressional Record*, which was reviewed for all references to the Federal Water Pollution Control Act (FWPCA) or the Clean Water Act (CWA) for the years 1981-1987. The legislative record for previous years was examined with respect to amendments to the FWPCA. Appendix A presents, in chronological order, all information found in the public records concerning the legislative evolution of the study of *de minimis* discharges. All page references cited in this chapter are contained in Appendix A.

The National Pollutant Discharge Elimination System (NPDES) was established with the passage of Public Law 92-500, called the FWPCA Amendments of 1972 (also known as the Clean Water Act), by the second session of the 92nd Congress on October 12, 1972. The NPDES program requires all point source discharges of pollutants (other than dredged or fill material regulated under Section 404 of the CWA) to United States waters to have a permit, the term of which may not exceed 5 years. Subsequent amendments to the FWPCA were produced by Congress, but contained no references to insignificant (*de minimis*) discharges.

Modifying regulations for insignificant discharges under the NPDES permit program were first proposed during public hearings held in 1982 on possible amendments to the FWPCA. Hearings were again held in 1983 and 1985. The bill passed by Congress in February 1987 became Public Law 100-4 (PL 100-4), amending the FWPCA. Section 516

Background

of the Water Quality Act (WQA), a "Study of *De Minimis* Discharges," mandated the study of insignificant discharges of pollution, as well as recommendations for methods to best regulate them. The following paragraphs present the legislative evolution of the *De Minimis* Discharges Study.

The 1982 hearings before the Subcommittee on Water Resources of the U.S. House of Representatives Committee on Public Works and Transportation produced the first mention in the public record of the exclusion of "insignificant discharges" from the requirements of the NPDES permit program. The idea was first set out by J.C. Hildrew, speaking for the American Petroleum Institute on July 28, 1982. He quoted a 1979 report of the Association of State and Interstate Water Pollution Control Administrators (ASIWPCA) as source of the assertion that "about 51 percent of all permits issued . . . involved relatively insignificant facilities with respect to point source pollution concerns," which places a heavy burden, in terms of both time and cost, on government and industry. He concluded that "the EPA Administrator should be given specific authority to exempt environmentally insignificant discharges from the requirements of the NPDES permit program" (p. A-1). On July 29, R.F. Flacke, Commissioner of the New York State Department of Environmental Conservation, estimated the number of "dischargers of a minor nature" to be "about eighty percent of the permittees." He stated that these minor discharges do not require review every 5 years due to "the unchanging nature of the waste streams and/or the lack of additional treatment requirements" (p. A-5). J.W. Haun, speaking for the National Environmental Development Association (NEDA) on July 29, introduced the term "*de minimis*" for those discharges that ". . . based on concentration, volume, and type of discharge . . . are insignificant to the protection of water quality . . ." and advocated their exemption from NPDES requirements (p. A-6). Following these hearings, a bill (H.R. 3282) was introduced by Rep. Howard on June 13, 1983, and contained Section 35 entitled "Study of Regulation of *De Minimis* Discharges" (p. A-9).

Background

The Committee on Public Works and Transportation, U.S House of Representatives, held hearings in the fall of 1983 on possible amendments to the FWPCA. On September 20, H.G. Williams, Commissioner of the New York State Department of Environmental Conservation, reported that "in New York, ninety percent of the point source pollution comes from ten percent of the sources." He recommended the extension of NPDES permits to a duration of 10 years to ". . . give regulating agencies the ability to concentrate their resources on permit compliance rather than permit administration" (p. A-11). O.G. Simpson, Atlantic Richfield Company, urged the exemption of "*de minimis* classes of point source dischargers of conventional pollutants" (p. A-12). K.E. Blower of the Standard Oil Company of Ohio, representing the American Petroleum Institute Water Program Committee, on November 10 urged Congress ". . . (a) to exempt appropriate discharges from categories of point sources, and (b) to exempt specific point source discharges on a case-by-case basis" (p. A-13). J.W. Haun, appearing again for NEDA, recommended that "the EPA Administrator should be allowed to exempt *de minimis* point source discharges and channeled stormwater runoff containing *de minimis* quantities of pollutants from the NPDES permit procedure" (p. A-15). After this phase of hearings, the text of H.R. 3282, ordered to be printed by the Committee of the Whole House on June 6, 1984, retained its Section 35 (p. A-16).

On June 20, 1984, Rep. Oberstar and cosponsors introduced H.R. 5903; Section 35 of that act required a study of regulation of *de minimis* discharges, which was identical in wording to that of H.R. 3282 (p. A-18). A subsequent amendment (p. A-20) merged the two bills into H.R. 3282, which was passed by the House on June 26 (p. A-22), sent to the Senate, and placed on the calendar on July 24. H.R. 3282 died for lack of action.

When the 99th Congress convened in 1985, Rep. Howard on January 3 introduced H.R. 8, which was a virtual copy of his H.R. 3282 of 1983; Rep. Oberstar on March 7

Background

introduced H.R. 1509, which was a virtual copy of his H.R. 5903 of the previous year. Both bills contained *de minimis* discharges study sections identical in wording (pp. A-26 and A-28). J.L. Ledbetter, Commissioner, Department of Natural Resources, State of Georgia, appeared at a hearing before the Subcommittee on Water Resources of the House Committee on Public Works and Transportation on April 30, 1985. Speaking for ASIWPCA, he estimated that "in most states, seventy-five percent of the permits are for relatively small dischargers with nontoxic wastewaters, and 10-year permits would enable the states to spend more time developing and re-opening the permits for major sources" (p. A-29). Amendments were added to H.R. 8 in July; renumbering of the sections caused the study of *de minimis* discharges to become Section 43, but the wording was unchanged (p. A-30).

On July 23, H.R. 8, as amended, was passed by the House. The House then agreed to consider Senate bill 1128. Rep. Howard amended it by substituting its contents with the text of H.R. 8 as passed. This brought about another renumbering of sections, and the *de minimis* discharges study became Section 67 (p. A-36). The Senate disagreed with the House amendments and requested a conference. S. 1128 emerged from the conference on October 15, 1986, in drastically altered form, but the *de minimis* discharges study was retained and became Section 516 (p. A-38). S. 1128 was pocket vetoed by President Reagan.

On January 6, 1987, S. 1 was introduced in the Senate by Sen. Byrd and numerous cosponsors, and H.R. 1 was introduced in the House of Representatives by Rep. Howard and a multitude of cosponsors. The bills were identical and contained the exact wording of S. 1128. In the House debate, Rep. Hammerschmidt expressed his belief that most stormwater discharges would not have significant environmental impacts and would not require permits (p. A-47). The House passed H.R. 1 on January 8, 1987 (p. A-49). As a part of the Senate consideration of H.R. 1, Sen. Dole proposed an amendment that would

reduce the funding. This amendment had two sections dealing with the *de minimis* discharges study, 511 and 526, which were identical in wording and unaltered from Section 516 of S. 1 and H.R. 1. The Dole amendment was rejected by a vote on January 21, 1987, after which the Senate passed the original bill. President Reagan vetoed the bill on January 30. The House voted on February 3, 1987, to override the veto, and the Senate followed suit on February 4. The study of *de minimis* discharges was thus mandated.

REGIONAL AND STATE PERMITTING AUTHORITY CONTRIBUTIONS

The NPDES permitting program is administered by Regional (EPA) and authorized State permitting agencies throughout the United States. EPA Regional permitting authorities were initially contacted to provide suggestions on the types or categories of discharges that could be considered *de minimis*, including data and supporting rationale. A detailed questionnaire was then developed on the basis of the responses (Appendix B).

The ten EPA Regional permitting authorities and nine State permitting agencies (Maine, New Jersey, Pennsylvania, Kentucky, Wisconsin, Texas, Missouri, California, and Washington) recommended by the Regional offices (Figure 1-1) were surveyed to obtain information on the types or categories of discharges that could be considered *de minimis*, as well as to obtain recommendations for regulatory options and to identify associated procedural implications with respect to the classification of *de minimis* discharges. Results of the survey were assessed and compiled. Regional and State permitting agencies recommended several categories of *de minimis* discharges that national data bases have identified as having a potential discharge of toxics (Appendices C and D). As a result, these recommendations were not carried forward in this report.

Background

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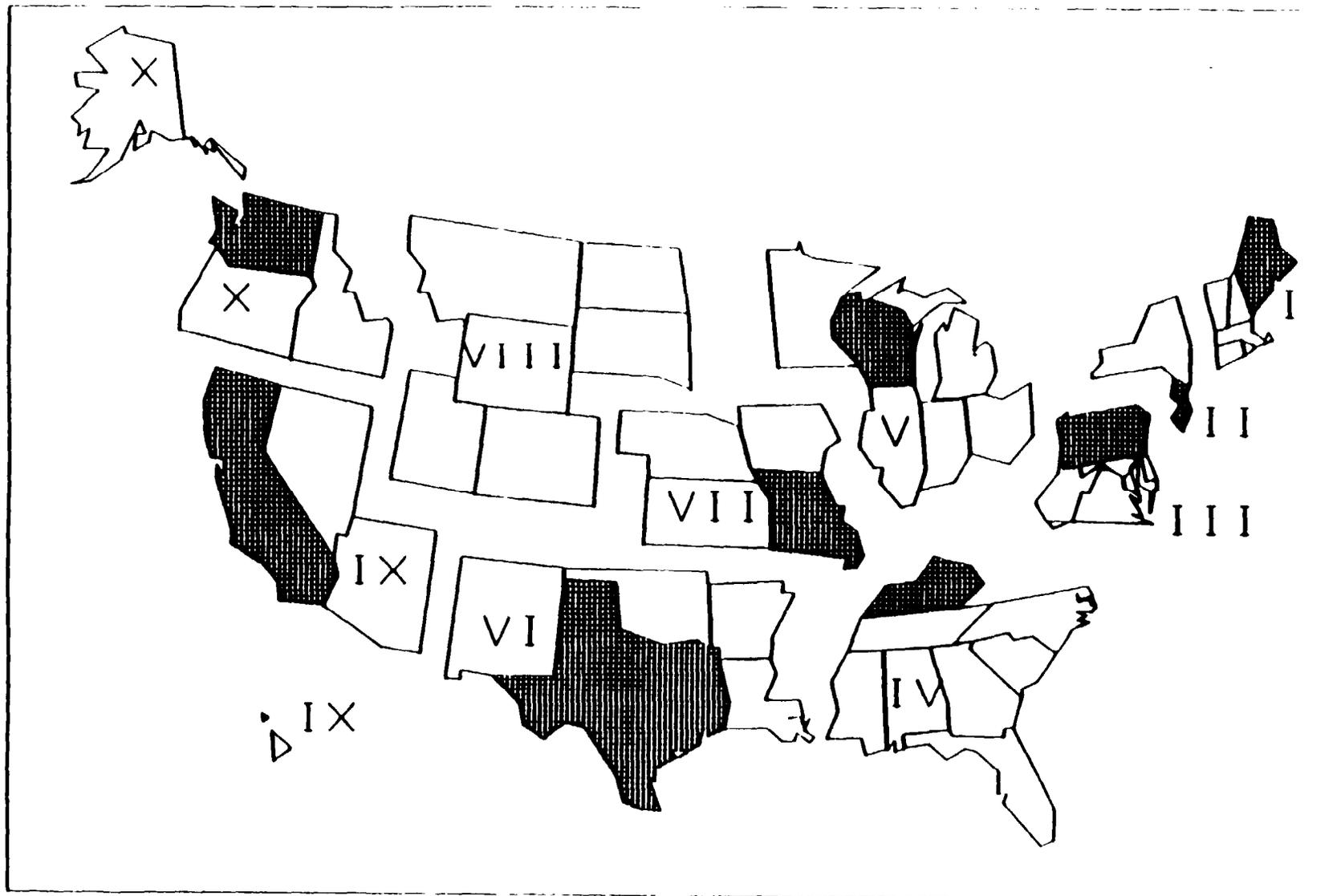


Figure 1-1. EPA Regional and State Contacts for the De Minimis Discharges Study.

Chapter Two

CLASSIFICATION OF *DE MINIMIS* DISCHARGES

Over 74,000 facilities nationwide are currently discharging into navigable waters. From an environmental standpoint, any discharge may have a potential for water quality impacts. However, some types of discharges may not be significantly impacting water quality. This chapter classifies those discharges identified as potentially *de minimis* using readily available data, supporting information, and guidelines established by the Agency. The classification process was severely hampered by the lack of data since most permitting and compliance monitoring activities have concentrated on major discharges, which, by definition, are not *de minimis*. The classification is a two-part process involving (1) screening and evaluation of discharges according to the type of facility, type of effluent, current Federal regulations, and permit limitations to quantify potential *de minimis* discharges and, subsequently, (2) application of site-specific criteria to confirm a discharge as *de minimis*. Based on the initial screening, which is the level of analysis conducted for this report, the number of facilities classified in this study as potentially *de minimis* is projected nationwide. The criteria to confirm a discharge as *de minimis* under the second part of the process are outlined, but none of the facilities classified as potentially *de minimis* have actually been confirmed from the initial screening as part of this report.

METHOD OF CLASSIFICATION

Data were retrieved from four EPA data bases (Permit Compliance System (PCS), Industrial Facilities Discharge (IFD) file, REACH, and GAGE), and subsequently compiled and analyzed using a computerized software system. Facilities identified in PCS as actively discharging into "waters of the United States" were retrieved by State or Territory for the ten

Classification of *De Minimis* Discharges

EPA Regional Divisions of the United States (Table 2-1) and classified into four categories based on the facilities' 1972 Standard Industrial Classification (SIC) codes: (1) primary industrial, (2) sewage treatment, (3) unknown, and (4) secondary (Table 2-2). The four categories were defined in order to determine industries that discharge or have the potential to discharge pollutants (toxics, conventional pollutants, and nonconventional pollutants (ammonia and chlorine)) into receiving streams. The secondary facilities category contains the largest number of active facilities (Figure 2-1). The four categories were then screened and evaluated for potential *de minimis* status.

Screening and Evaluation of Discharges

The screening and evaluation of a facility's discharge were based on four criteria: (1) category of industry; (2) effluent characteristics, such as the type of effluent and its potential for toxic pollutants; (3) promulgation of Federal effluent limitation guidelines and standards for toxics, conventional pollutants, and nonconventional pollutants; and (4) permit limitations for any toxics, ammonia, or chlorine.

Several assumptions and limitations were made in applying these criteria.

1. Differences may exist in the level and types of discharges of toxic substances between subcategories of the same SIC code. However, a nationwide data base of facilities by subcategory was unavailable to complete this study. Therefore, the number of facilities projected with toxic pollutant discharges may be overestimated since toxicity data were extrapolated to the entire industry (i.e., SIC code).

Classification of *De Minimis* Discharges

Table 2-1

States and U.S. Territories Addressed by the
De Minimis Discharges Study

REGION I

Connecticut (CT)
Maine (ME)
Massachusetts (MA)
New Hampshire (NH)
Rhode Island (RI)
Vermont (VT)

REGION II

New York (NY)
New Jersey (NJ)
Puerto Rico (PR)
Virgin Islands (VI)

REGION III

Delaware (DE)
Washington, D.C. (DC)
Maryland (MD)
Pennsylvania (PA)
Virginia (VA)
West Virginia (WV)

REGION IV

Alabama (AL)
Florida (FL)
Georgia (GA)
Kentucky (KY)
Mississippi (MS)
North Carolina (NC)
South Carolina (SC)
Tennessee (TN)

REGION V

Illinois (IL)
Indiana (IN)
Michigan (MI)
Minnesota (MN)
Ohio (OH)
Wisconsin (WI)

REGION VI

Arkansas (AR)
Louisiana (LA)
Oklahoma (OK)
Texas (TX)
New Mexico (NM)

REGION VII

Iowa (IA)
Kansas (KS)
Missouri (MO)
Nebraska (NE)

REGION VIII

Colorado (CO)
Montana (MT)
North Dakota (ND)
South Dakota (SD)
Utah (UT)
Wyoming (WY)

REGION IX

California (CA)
Nevada (NV)
Arizona (AZ)
Hawaii (HI)
American Samoa (AS)
Guam (GU)

REGION X

Alaska (AK)
Idaho (ID)
Oregon (OR)
Washington (WA)

Classification of *De Minimis* Discharges

Table 2-2
Categories Used to Define Potential
De Minimis Discharges

Category	Definition
1 Primary Industrial Facilities: (17,463 Facilities)	Facilities included as part of the industry categories listed in the National Resources Defense Council (NRDC) settlement agreement (Table 2-3). "Any permit issued after June 30, 1981, to dischargers in the following categories shall include effluent limitations and a compliance schedule to meet the requirements of Section 301(b)(2)(A), (C),(D),(E), and (F) of CWA, whether or not applicable effluent limitations guidelines have been promulgated." (CFR, Appendix A of Part 122, as identified in PCS). These facilities have a high potential for toxic pollutant discharge.
2 Sewage Treatment Facilities: (21,073 Facilities)	Establishments primarily engaged in the collection and disposal of wastes conducted through a sewer system, including such treatment processes as may be provided (SIC 4952).
3 Unknown Facilities: (4,031 Facilities)	Facilities with an unknown Standard Industrial Classification or listed as nonclassifiable.
4 Secondary Facilities: (31,958 Facilities)	All facilities categorized other than primary facilities, sewage treatment facilities, or unknown facilities.

Classification of *De Minimis* Discharges

Table 2-3

Category 1
NPDES Primary Industrial Categories

Adhesives and sealants
Aluminum forming
Auto and other laundries
Battery manufacturing
Coal mining
Coil coating
Copper forming
Electrical and electronic components
Electroplating
Explosives manufacturing
Foundries
Gum and wood chemicals
Inorganic chemicals manufacturing
Iron and steel manufacturing
Leather tanning and finishing
Mechanical products manufacturing
Nonferrous metals manufacturing
Ore mining
Organic chemicals manufacturing
Paint and ink formulation
Pesticides
Petroleum refining
Pharmaceutical preparations
Photographic equipment and supplies
Plastics processing
Plastic and synthetic materials manufacturing
Porcelain enameling
Printing and publishing
Pulp and paper mills
Rubber processing
Soap and detergent manufacturing
Steam electric power plants
Textile mills
Timber products processing

Source: CFR, Appendix A of Part 122

Classification of *De Minimis* Discharges

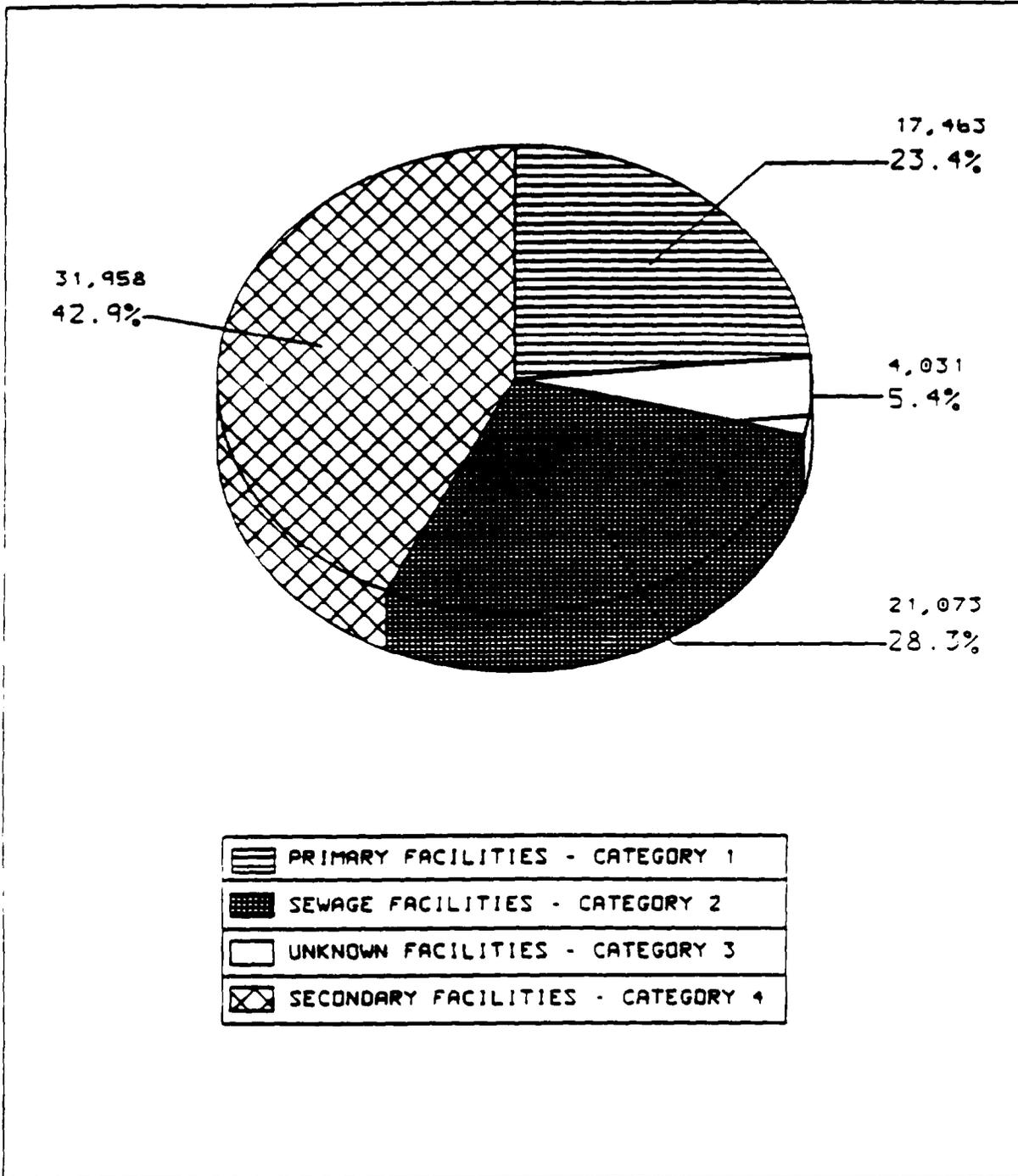


Figure 2-1. Nationwide Distribution of All Active NPDES Facilities. (74,525)

Classification of *De Minimis* Discharges

2. Limitations existed in the identification of secondary facilities with potential for discharging toxics, ammonia, or chlorine. Because of the limited data, if one facility was identified as having a limit for one of these pollutants, the entire industry was projected within a SIC code to have a potential impact on water quality. Therefore, the number of facilities with projected impacts from these pollutants may be overestimated.
3. Limitations existed in all of the national data bases. Since most data-gathering activities have concentrated on major discharges, data were incomplete, in particular, regarding the characterization of the type and amount of minor discharges and the identification of the receiving stream to which the facility discharges. Therefore, the number of facilities projected to be potential *de minimis* represents only a rough estimate of the total number.

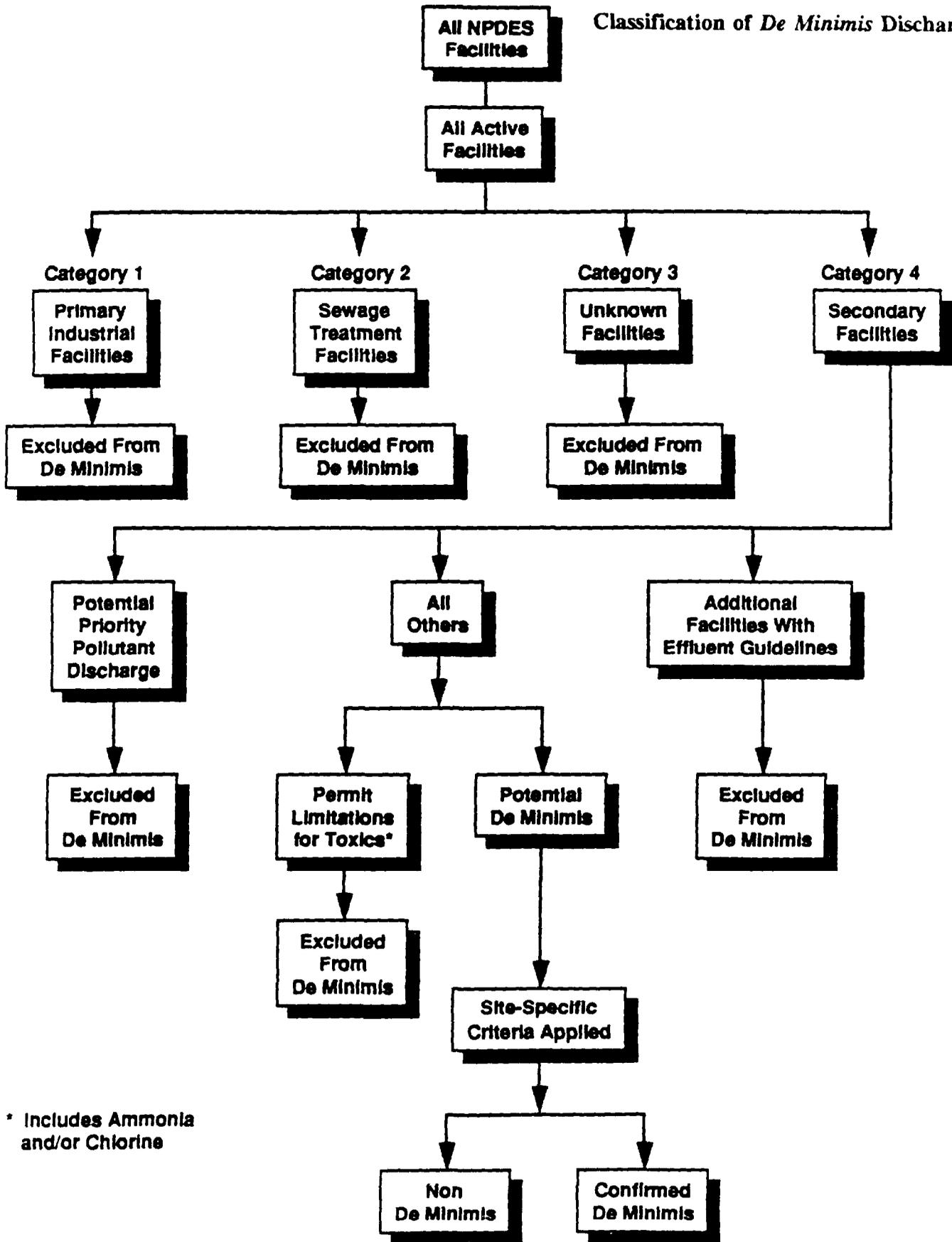
The application of criteria to the four major levels of categories to identify a facility as potential *de minimis* was as follows (Figure 2-2):

Primary Industrial Facilities (Category 1): Industries in this category have been defined, through research and evaluation by the Agency, as having a high potential for toxic pollutant discharge. Therefore, facilities with process wastewater discharges (which have come into direct contact with or result from the production or use of any raw materials or product) were excluded from *de minimis*.

Primary facilities with only noncontact cooling discharges were also excluded from potential *de minimis*. These discharges would have potential for water quality impacts because of the potential for toxics due to the use of algicides, slimicides, and corrosion inhibitors in noncontact cooling waters.

Sewage Treatment Facilities (Category 2): Facilities classified as sewage treatment facilities are defined as facilities primarily engaged in the collection and disposal of wastes conducted through a sewer system including both privately and publicly owned treatment

Classification of *De Minimis* Discharges



* Includes Ammonia and/or Chlorine

Figure 2-2. Schematic Diagram of Nationwide Classification of Potential De Minimis Discharges.

Classification of *De Minimis* Discharges

works. Facilities in this category have a high potential for toxic pollutant discharges, ammonia, and chlorine, as well as pathogens. Ammonia is frequently found in the effluent because of the nature of the waste, with chlorine being used as a disinfectant. Ammonia and chlorine are known to be toxic to fish; EPA has established national water quality criteria for the protection of aquatic life at 1.15 mg/L-N (pH 7.75, temperature 20°C) for ammonia and 0.11 mg/L for chlorine. Consequently, all sewage treatment facilities were excluded from *de minimis*, regardless of discharge flow, including both privately and publicly owned treatment works.

Unknown Facilities (Category 3): All facilities that could not be classified in any industry had an unknown potential for toxic pollutant discharge. Unknown facilities were excluded from *de minimis*.

Secondary Facilities (Category 4): Secondary facilities were classified into one of three groups: facilities with a significant potential for toxics in their discharge, additional facilities with effluent guidelines, and facilities classified as "all others." Facilities classified as "all others" were further classified into facilities with permit limitations for any toxics, ammonia, or chlorine, and facilities projected to be potential *de minimis*.

Facilities in industries with significant potential for toxics were identified through four evaluations:

1. Industries defined by the National Enforcement Investigative Center (NEIC) with a probable discharge of toxic pollutants (Appendix E).
2. Industries regulated by Federal effluent limitation guidelines or standards for toxic pollutants.

Classification of *De Minimis* Discharges

3. Industries identified in the Domestic Sewage Study (DSS) as having a high potential for toxic discharge. The DSS evaluated the impacts of hazardous wastes discharged to local wastewater treatment plants.
4. Industries currently being evaluated for possible effluent limitation guidelines development (by the Engineering and Analysis Division (EAD)).

All facilities in industries with a significant potential for toxics were excluded from *de minimis*, including facilities with only noncontact cooling water discharges. Noncontact cooling water discharges were eliminated because of the potential for being contaminated with algicides or slimicides.

Facilities in industries regulated by Federal effluent limitation guidelines or standards for conventional or nonconventional pollutants were excluded from *de minimis* based on the potential for significant water quality impacts. All facilities were excluded, including facilities with only noncontact cooling water discharges.

Facilities classified as "all others" with permit limits (PCS) for any toxics, including ammonia or chlorine (which are classified as nonconventional pollutants but are also known to be highly toxic) were also evaluated. Because of the limited available data and small sample size within an industrial category, a statistical analysis was not feasible. Therefore, if one facility was identified as having a limit for toxics, the entire industry (i.e., SIC code) was projected to have a potential impact on water quality.

The remaining facilities were classified as potential *de minimis*. Based on available information, there is no evidence that any facility in the industries so classified would cause a significant water quality problem.

Classification of *De Minimis* Discharges

Confirmation of Classification

Once a facility is identified as potential *de minimis*, site-specific criteria should be applied to confirm a facility as *de minimis* or *non-de minimis*. Such an effort is appropriate, but beyond the scope of this report. The following criteria are currently in use by the Agency's Office of Wastewater Enforcement and Compliance (OWEC) to designate an industrial discharge as major or minor. The criteria are based on an assessment of six characteristics of a facility's discharge (Appendix F). Generally, permitting agencies should already have available adequate information from permit applications to determine final status.

- **Toxic Pollutant Discharge:**

Are toxics present in the discharge?

- **Flow/Stream Flow Volume:**

(1) Does the quantity and type of wastewater discharge alone indicate a potential significant impact?

or

(2) Does the dilution capacity of the receiving stream, in addition to the quantity and type of discharge, indicate a potential significant impact?

- **Conventional Pollutants :**

Do the loads (or concentration) of oxygen-demanding (BOD, COD, TOC etc), total suspended solids (TSS), and ammonia (NH₃, TKN) pollutants indicate a potential significant impact?

- **Public Health Impact:**

Is a public drinking water supply located within 50 miles downstream of the effluent discharge?

Classification of *De Minimis* Discharges

- **Water Quality Factors:**

Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream or has a wasteload allocation been assigned to the discharge? Is the receiving water in compliance with the applicable water quality standards for pollutants that are water quality limited in the permit? Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?

- **Proximity to Near Coastal Waters:**

Does the facility discharge to near coastal waters or the Great Lakes? Does the facility discharge to one of the estuaries enrolled in the National Estuary Protection Program or discharge any of the pollutants of concern into one of the Great Lakes areas of concern?

SOURCES OF DATA

Data used in this assessment were compiled from various EPA data bases and sources:

Permit Compliance System (PCS), December 1987: A computerized management information system for tracking permit, compliance, and enforcement status data for the NPDES under the Clean Water Act (CWA). The PCS data base is the national inventory for NPDES permit issuance and compliance/enforcement data. The Agency is required by law (PL 92-500) to maintain this inventory and to ensure its integrity. The data in the PCS data base were initially loaded by EPA several years ago. Currently, data may be entered or edited by the Regions and States.

Classification of *De Minimis* Discharges

Industrial Facilities Discharge File (IFD), December 1987: A comprehensive data base of industrial and municipal point source dischargers. The data base includes general information about each facility, including discharge and location information, Standard Industrial Classification (SIC) codes, and categorization of process and discharge type. PCS was used to identify NPDES permitted facilities to be included in the IFD file. NPDES permits were used to provide general information, and various State and local agencies provided additional and more recent information. The Needs Survey was used to add information on existing Publicly Owned Treatment Works (POTWs). Updates are made by EPA Headquarters as needed.

REACH File: A digital data base of streams, lakes, reservoirs, and estuaries divided into segments called "reaches." Each of the 68,000 reaches included in the file is uniquely identified by an 11-digit reach number. The data base includes stream names, open-water names, stream and shoreline traces, and mileage information. EPA Headquarters is adding new reaches to increase the utility of the REACH File for data integration and water quality analyses.

GAGE File: A data base containing information on approximately 36,000 stream gaging locations throughout the United States. Information includes the location of gaging stations, types of data collected, frequency of data collection, media in which data are stored, identification of the collecting agency, and mean and annual flow and 7Q10 low flow, where available. These stations are considered to have the longest period of record of natural flow. Updates are made by EPA Headquarters as needed.

EPA Regional and State Permitting Offices: Supporting information was obtained from the ten EPA Regional Permitting Authorities and nine State permitting agencies (Maine,

Classification of *De Minimis* Discharges

New Jersey, Pennsylvania, Kentucky, Wisconsin, Texas, Missouri, California, and Washington) recommended by the EPA Regional Offices.

Additional Sources:

- 1972 Standard Industrial Classification Manual
- Federal Effluent Limitation Guidelines and Standards
- National Enforcement Investigative Center in Denver, Colorado
- 1985 Report to Congress on the Discharge of Hazardous Waste to Publically Owned Treatment Works (Domestic Sewage Study)
- Engineering and Analysis Division

CLASSIFICATION PROJECTIONS

The following section summarizes the classification of potential *de minimis* discharges. Data are projected nationwide based on the four major categories: primary industrial, sewage treatment, unknown, and secondary. A total of 893 facilities were projected to be potentially *de minimis* (Figure 2-3). As mentioned previously, the data base supporting this analysis is extremely limited. Because the data on most minor facilities are limited, entire groups of dischargers were screened out from the category of potential *de minimis* if there was reason to conclude that a group of permittees contained at least a reasonable number of dischargers that could not be considered *de minimis*. The Agency approached the *de minimis* classification in this manner to avoid overestimating the number of *de minimis* discharges. As a result, the projected number of potential *de minimis* discharges may be underestimated; some facilities that were categorically excluded could be

Figure 2-3

Classification of Potential *De Minimis* Discharges

Number of Facilities

Number of Facilities Excluded

Description

74,525 Active Facilities

NPDES facilities currently discharging into navigable waters. Includes facilities with permit applications and expired permits.

17,463

Primary Industrial Facilities (Category 1)
Industries in this category have been defined through research and evaluation by EPA as having a high potential for toxic pollutant discharge.

57,062

21,073

Sewage Treatment Facilities (Category 2)
Facilities in this category have a high potential for the discharge of toxic pollutants (including ammonia and chlorine), as well as pathogens.

35,989

Figure 2-3

Classification of Potential *De Minimis* Discharges (cont.)

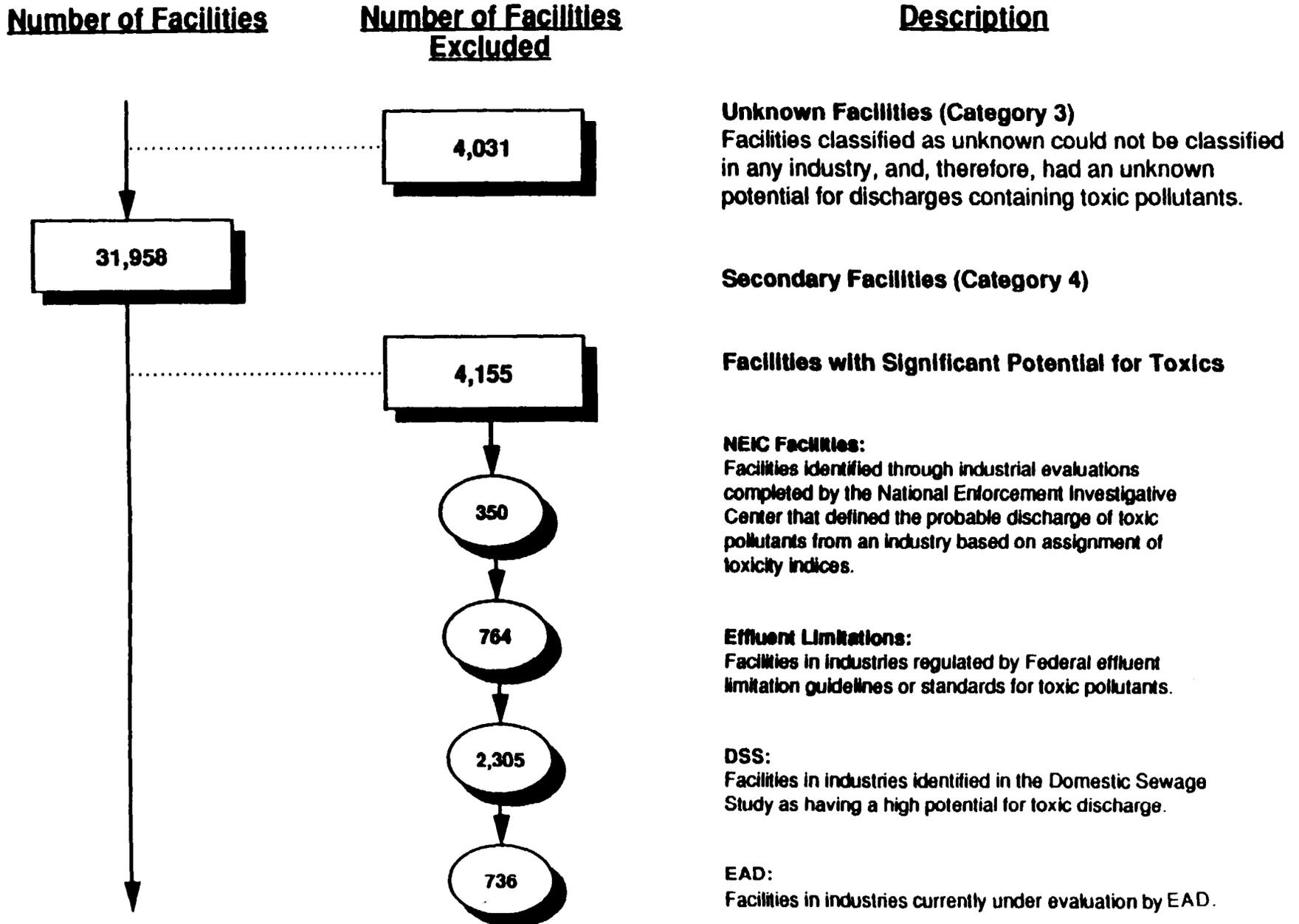


Figure 2-3

Classification of Potential *De Minimis* Discharges (cont.)

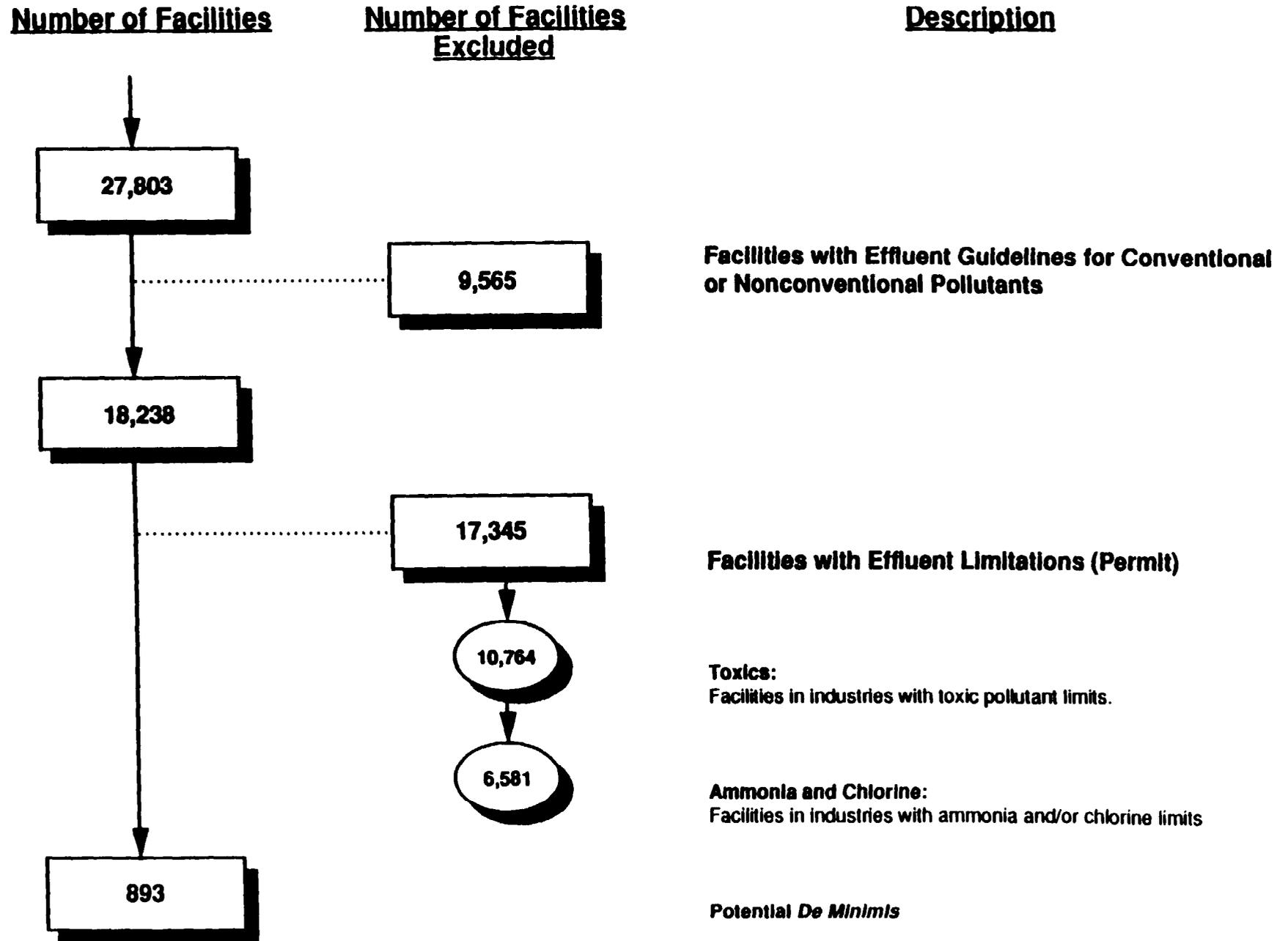
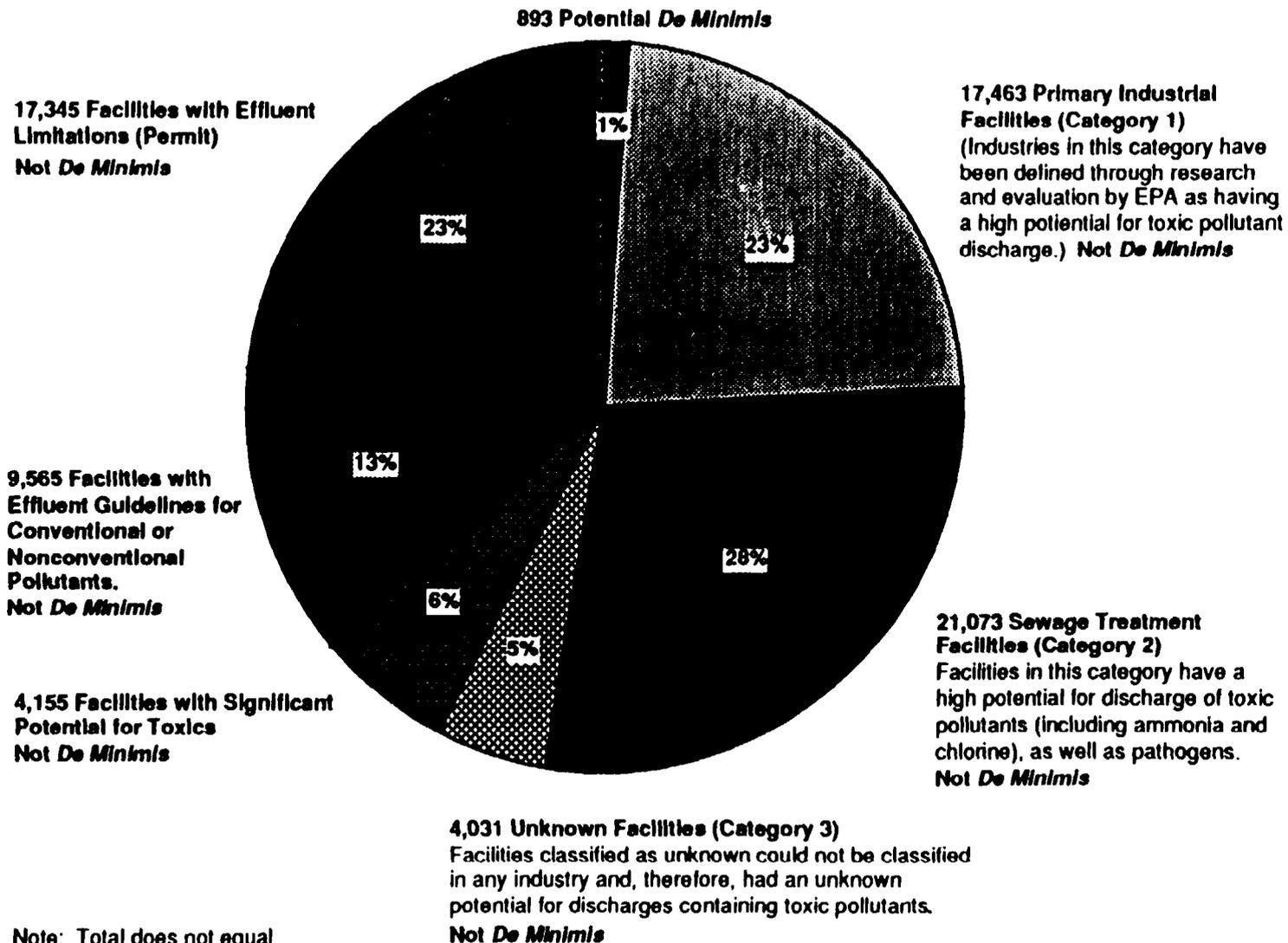


Figure 2-3

Classification of Potential *De Minimis* Discharges (cont.)



Note: Total does not equal 100% due to rounding to nearest whole number.

Total Active Facilities = 74,525

Classification of *De Minimis* Discharges

determined to qualify as *de minimis* if it were possible to examine them on a case-by-case basis.

Primary Industrial Facilities (Category 1)

Out of a total of 74,525 active NPDES facilities, 23.4 percent or 17,463 facilities were classified as primary industrial. Approximately 16,222 of the facilities were identified as having process wastewater discharges or incomplete data and were excluded from *de minimis*. The remaining 1,241 facilities were identified as having only noncontact cooling discharges and were also excluded from *de minimis* because of the potential for contamination with algicides and slimicides.

Sewage Treatment Facilities (Category 2)

The 21,073 facilities classified as sewage treatment (SIC 4952) account for 28.3 percent of all active NPDES facilities. All sewage treatment facilities were excluded from *de minimis*.

Unknown Facilities (Category 3)

Facilities classified as unknown (4,031) account for 5.4 percent of all active NPDES facilities. Such facilities could not be classified in any industry and, therefore, had an unknown potential for discharges containing toxic pollutants. All unknown facilities were excluded from *de minimis*.

Classification of *De Minimis* Discharges

Secondary Facilities (Category 4)

Secondary facilities represent the largest (43 percent) single category of all active NPDES facilities. The 31,958 facilities identified as secondary facilities were further classified into four groups:

1. Facilities with a significant potential for toxics in their discharge - 4,155 facilities (Appendix G).
2. Additional facilities regulated by Federal effluent guidelines for conventional or nonconventional pollutants - 9,565 facilities (Appendix H).
3. Facilities in industries classified as "all others" with effluent limitations (permits) for any toxics, as well as ammonia or chlorine - 17,345 facilities (Appendix I).
4. Facilities projected to be potential *de minimis* - 893 facilities (Appendix J).

In Groups 1 and 2, 13,720 facilities identified with process wastewater discharges or with only noncontact cooling water discharges were excluded from *de minimis*. In Group 3, all facilities (17,345) were excluded.

The remaining 893 facilities were classified as potential *de minimis*. Based on available information, there is no evidence that such facilities would cause a significant water quality problem.

An indeterminate number of minor discharges may be informally recognized by the permitting authority as *de minimis* discharges, even though they belong to a category of facilities that was screened out through the classification scheme used in this report. This subset of minor discharges bears little regulatory burden. Once the initial NPDES permit of

Classification of *De Minimis* Discharges

such discharges is issued, it may be administratively extended for a lengthy time before reissuance, while the permitting agency concentrates on major discharges. These minor discharges may also be covered by general permits.

Summary of Potential *De Minimis* Facilities

A total of 893 facilities are projected nationwide to be potential *de minimis*, accounting for 1.2 percent of all active NPDES facilities. Once identified, potential *de minimis* facilities would be subject to site-specific criteria to confirm the facility as *de minimis*. The level of regulation imposed on a facility confirmed as *de minimis* may be a function of the permitting agency's degree of concern. The available regulatory options currently employed for the permitting of discharges, as well as other potential regulatory options that have been compiled by the Agency, are presented in the following chapter, Regulation of *De Minimis* Discharges.

Chapter Three

REGULATION OF *DE MINIMIS* DISCHARGES

Discharges that have been determined to be *de minimis* based on a facility's industrial and effluent characteristics are currently subject to the same regulatory burden as all discharges. However, alternative regulations that would reduce the regulatory and administrative burden to the regulatory agencies, as well as to industry, have been recommended to the Agency. This chapter provides a discussion of (1) regulatory options that are currently employed for the permitting of discharges, (2) other potential regulatory options that have been recommended, and (3) a technical evaluation of the various options. The standard permit program (including model permits) and the General Permit Program currently exist under Clean Water Act legislation and involve certain permitting steps ranging from application to compliance monitoring and inspection. Other potentially applicable regulatory options include ten-year permits, over-the-counter permits, exclusion by waiver, and the national rule approach. These options may involve reduced or modified permitting steps to lessen the permitting burden. Table 3-1 presents the steps involved in these permitting procedures, which are discussed in detail in the following sections.

EXISTING REGULATIONS

The National Pollutant Discharge Elimination System (NPDES) "requires permits for the discharge of pollutants from any point source into waters of the United States," except as provided in Section 404 of the CWA, which regulates dredge and fill activities. Currently, two regulatory approaches exist for NPDES permitting agencies (EPA Regions or States) to meet this requirement. These options are the Municipal and Industrial Permit Program (standard NPDES permit program including model permits) and the General Permit Program.

Table 3-1.
Steps Involved in Potential De Minimis Regulatory Options

Regulatory Steps	Standard NPDES Permit and 10-Yr Permit			Model Permit			General Permit			Over-the-Counter Permit			Exclusion by Waiver			National Rule			
	PM	PA	EH	PM	PA	EH	PM	PA	EH	PM	PA	EH	PM	PA	EH	PM	PA	EH	
1. Pre-application discussion	P	P		P	P					R	R		P	P					
2. Permit application	R			R			P-May require a Notice of Intent			R	R-Abbreviated process		P-May require a Notice of Intent			P-May require a Notice of Intent			
3. Application processing		R			R					R	R			P				P	
4. Development of a draft permit		R			R			R					P-Could be bypassed						
a) Effluent limits		R		P	} May have to be altered to fit indiv. facil.		R	} One permit covering a designated group of dischargers											
b) Monitoring requirements		R		P			R												
c) Standard conditions		R					R												
d) Special conditions		P		P			P												
5. Statement of Basis		R-Unless a fact sheet is required (EPA only)			R-Unless a fact sheet is required (EPA only)														
6. Fact Sheet		P-For major fac. only			P-For major fac. only			R											
7. Headquarter Review																		P	
8. Public Notice		R			R				R-Also Region Review for State permits					P				R-For rule	
									R-Only for the draft permit (1 public notice)		P-Bypass would require a statutory change)								
9. Public Hearing		P			P			P		P			P					P	
10. Permit Issuance		R			R			R		R								R-A rule stating coverage & criteria	

Table 3-1
Steps Involved in Potential De Minimis Regulatory Options

Regulatory Steps	Standard NPDES Permit and 10-Year Permit			Model Permit			General Permit			Over-the-Counter Permit			Exclusion by Waiver			National Rule			
	PM	PA	EH	PM	PA	EH	PM	PA	EH	PM	PA	EH	PM	PA	EH	PM	PA	EH	
11. Administrative Record			R-For EPA-issued permits			R-For EPA-issued permits			R-For EPA-issued permits			P							R-For rule
12. Discharge Monitoring Reports	R			R			R			R									P
13. Compliance Monitoring & Inspection			P			P			P			P							P

KEY: PM - Permittee
 PA - Permitting Agency
 EH - EPA Headquarters
 P - Potential Step
 R - Required Step

Regulation of *De Minimis* Discharges

As of September 1991, 39 States and Territories have been authorized to issue permits under the standard NPDES program. In addition, 28 of the 39 States and Territories have been approved to administer general NPDES permits (See Appendix K). A Federal Facilities Program and a Pretreatment Program are also a part of the NPDES program authority, but do not include additional means by which facilities can be permitted.

Standard NPDES Permit

The standard NPDES permit is the most commonly used permitting procedure and involves application filing, application processing, developing a draft permit, formulating a statement of basis (or fact sheet), participation of the public, and issuing a final permit. Slight modifications to this procedure are used for both municipal and industrial facilities. All standard permits must contain effluent limits, monitoring requirements, and standard conditions, as well as special permitting conditions. The duration of a standard permit is a maximum of 5 years.

The steps involved in the standard permit program are described below:

Application: Filing information is submitted by a permittee for issuance or renewal of a permit on prescribed EPA or State application forms. Information may vary according to the type of discharge, but generally contains facility location, operations, types of discharge, a listing of related permits, a topographic map, outfall location, a line drawing of water flow, design flow information, production capacity, and effluent characteristics (40 CFR 122.21).

Application Processing: Processing a permit application involves the determination of whether the application is complete and accurate by the permitting agency. This process

Regulation of *De Minimis* Discharges

may involve the review of discharge monitoring reports (DMRs) and effluent limitation guidelines, and direct correspondence with the permittee.

Development of a Draft Permit: A draft permit is the core of the permitting process and requires considerable time and effort to complete. It involves the following four steps: (1) determination of effluent limits based on EPA effluent limitation guidelines, water quality considerations, best professional judgment (BPJ), or a combination of these methods; (2) development of monitoring requirements, consisting of parameters to be monitored, monitoring points, frequency, and types of sampling; (3) inclusion of standard conditions, which support the actual effluent limits by delineating legal, administrative, and procedural requirements of the permit, through the use of definitions pertaining to the permit, testing procedures as defined by EPA, requisites for records retention by the permittee, notification requirements for monitoring data and noncompliance, permittee responsibilities, and reopener clauses, as well as reference to applicable Federal and State laws; and (4) addition of special conditions that apply to the specific dischargers and may include compliance schedules, biomonitoring requirements, best management practices (BMPs), and other site-specific items.

Fact Sheet or Statement of Basis: A fact sheet is required for major dischargers (facilities designated as major by permitting authorities) and includes factual, legal, methodological, and policy data considered in the draft permit. A segment of these data is the statement of basis, which is required for EPA-issued permits that do not require fact sheets (permits for minor dischargers). The statement of basis is a brief summary of the basis for the draft permit conditions (40 CFR 124.8 and 124.56).

Public Notice, Comment, and Hearings: Public notice is the vehicle for informing interested parties of the permitting of a new facility and gives an opportunity for comment on

Regulation of *De Minimis* Discharges

the decisions made in the permit. Thirty days of public notice are required for draft NPDES permits. The notice must be submitted in at least two ways: (1) the publication of a notice in a daily or weekly newspaper within the area affected by the facility or activity (for major permits) and (2) the direct mailing of the notice to various designated parties, including the applicant; any other agency required to issue a Resource Conservation Recovery Act (RCRA) Underground Injection Control (UIC) permit, a RCRA Prevention of Significant Deterioration (PSD) permit, or a CWA Dredge or Fill Discharge (404) permit for the facility; all appropriate government agencies (e.g., U.S. Fish and Wildlife Services, neighboring States, etc.); and users identified in the permit application of a privately owned treatment works (40 CFR 124.10). Public notice must also be submitted in accordance with corresponding State regulations. Comments and requests for hearings may be elicited by public notice. Any interested party may request information, dispute the draft permit, or request a public hearing. The regulatory agency is obliged to respond to all significant comments. The response to a request for a public hearing is based on judgment, and a hearing should be granted by the permitting agency if there is a significant amount of interest expressed during the public comment period.

Issuance of a Final Permit: A final permit may be issued after the close of the public participation period, which includes public notice, any public hearing, any extension or reopening of public comment, and permit certification.

Administrative Record: For EPA-issued permits, the record must consist of the application and supporting information, the draft permit, the statement of basis or fact sheet (with cited items and calculations), and all other items in the supporting file. The record for the final permit consists of the record for the draft permit, all comments received on the draft permit and corresponding responses, the transcripts of any hearings, and any written

Regulation of *De Minimis* Discharges

material received at a hearing. Approved States must provide access to all supporting information and must include the fact sheet (if applicable) within this information.

Discharge Monitoring Reports (DMRs): DMRs are required to be filed by the permittee on a regular basis (with a duration not to exceed 1 year), as stated in the permit. These reports include parameters specified under monitoring requirements.

Compliance Monitoring and Inspection: Compliance monitoring and inspection are additional means of evaluating the effectiveness of the permit and the compliance of the permittee. They include compliance evaluation inspections (CEIs), compliance sampling inspections (CSIs), compliance biomonitoring inspections (CBIs), and operation and maintenance (O&M) inspections.

Model Permit

The concept of the model permit is a streamlining of the standard permit. It uses an example permit for a related facility and modifies it to fit the facility in question.

This permitting process is generally used for facilities with similar operations and effluents. Once an original permit is developed for a facility within a category, it can be tailored to fit each discharger within this group. Changes should be minor, encompassing facility name, location, receiving stream, date, effluent limit and monitoring requirements (optional), and qualitative guidelines (optional), including standard conditions and special conditions.

Regulation of *De Minimis* Discharges

The final permit is identical to a standard 5-year NPDES permit in that it covers one facility, requires complete application information, and is bound to all regulatory requirements set forth in the CWA.

General Permit

A general permit is one permit covering multiple dischargers that (1) involve the same or substantially similar types of operations, (2) discharge the same types of wastes, (3) require the same effluent limitation or operating conditions, (4) require the same or similar monitoring, and (5) are deemed to be more appropriately controlled under a general permit than under individual permits. These five criteria must be met prior to the development of a general permit for the class or category of dischargers in question. All facilities must also be within a designated geographical or political boundary.

The General Permit Program is an optional program for States with NPDES authority and must be approved by EPA Headquarters. Permits under this program are still issued, modified, revoked, and reissued or terminated in accordance with the procedures followed for standard NPDES permits, but cover more than one discharger. General permits are ideal for, but not limited to, minor dischargers. Currently, 28 States have general permit authority (Alabama, Arkansas, California, Colorado, Georgia, Hawaii, Illinois, Indiana, Kentucky, Maryland, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Jersey, North Carolina, North Dakota, Oregon, Pennsylvania, Rhode Island, Tennessee, Utah, Virginia, Washington, West Virginia, Wisconsin, and Wyoming). Also, EPA Regional Offices can issue permits in 16 States or Territories that do not have NPDES authority (Alaska, American Samoa, Arizona, Florida, Guam, Idaho, Louisiana, Maine, Massachusetts, New Hampshire, New Mexico, Oklahoma, Puerto Rico, South Dakota, Texas, and Washington, DC).

Regulation of *De Minimis* Discharges

To develop a general permit, a permitting agency would identify a category of discharges that appear to be applicable for coverage under a general permit. Available information on these types of discharges would be studied to make certain that the five aforementioned criteria are met for the category. If the criteria are met, development of a general permit can proceed with in-depth study of the category using any applicable effluent guidelines, industrial permit abstracts, treatability manuals, guidance documents, etc. These tools are used to develop a draft permit that contains the same provisions as an individual NPDES permit (e.g., effluent limits, monitoring requirements, and standard conditions). Sometimes effluent limits and monitoring requirements are tiered so as to pertain to specific subclasses within a general permit category. Once a draft general permit is completed, it must undergo required reviews and public notices.

A draft general permit must be reviewed by the EPA Regional Office only if it is a State-issued permit. The EPA Headquarters Office of Wastewater Enforcement and Compliance (OWEC) must review all draft and final offshore general permits, but may request at any time to review all other categories of general permits. Regionally issued general permits can be issued only within the 16 States or Territories that do not have NPDES permit authority. Public notice for EPA-issued permits need only be published in the Federal Register and where required by State statutes. Public notice for State-issued general permits must be published in a daily or weekly newspaper, distributed to interested parties, and provided as required by State statutes.

A final general permit may be issued after the close of the review and public participation period, and permit certification. The final permit is subject to the same public notice requirements as the draft general permit.

Regulation of *De Minimis* Discharges

Upon final issuance of a general permit, coverage of individual potential permittees can be issued to any discharger meeting the criteria for the given permit category without application (automatic coverage) or with an abbreviated application (Notice of Intent). Currently, EPA highly recommends the use of a Notice of Intent to confirm that a facility is applicable for coverage under the general permit (i.e., to overcome the presumption that an individual permit is required), and to allow for tracking and record keeping of facilities covered. A Notice of Intent (NOI) generally requires the name, address, and telephone number of the permit applicant; the location of the facility; the name of the responsible on-site official; and the name of the receiving water. Other information that may be required is qualitative process and effluent descriptions and a justification for coverage under the general permit. The Notice of Intent generally does not require the detailed process descriptions, effluent sampling and analysis, and other information encompassed by standard applications. However, facilities covered by general permits are bound to the same self-reporting requirements that apply to facilities issued standard NPDES permits. Facilities must submit discharge monitoring reports (as specified by the general permit) with a duration not to exceed 1 year.

POTENTIAL REGULATORY OPTIONS

In addition to the existing regulatory options, three other options (originating from Agency, Region, or State suggestions) are presented as potential means to regulate *de minimis* discharges. These options may require statutory changes. Closer legal and technical scrutiny would be required if further consideration of these options is deemed warranted.

Ten-Year Permit

The ten-year permit extends the term of a standard NPDES permit from 5 to 10 years (statutory change). This would delay the reissuance of permits for minor facilities so that the backlog of expired and unpermitted facilities could be reduced.

Over-the-Counter Permits

Over-the-counter processing is currently used in New Jersey for minor stream encroachment, sewer extension, and riparian permits (non-NPDES permits) that meet specific criteria. Applicants can receive same-day or 24-hour service. Permit applications are handled by appointment only, and requirements are essentially the same for all projects. A pre-application phone conversation is generally required.

Application, review, and approval of minor permits occur on the same day at the same location. This process could be applied to *de minimis* discharges in one of two ways: (1) by developing a draft permit and still incorporating public notice or (2) by issuing a final permit and eliminating public notice (statutory change).

Exclusion from the NPDES Permit Program

Facilities excluded from the NPDES permit program would not be obligated to obtain or be regulated by a NPDES permit. Under an exclusion by waiver process, pre-application discussion and/or application (Notice of Intent) may be required to exclude discharges on a site-by-site basis.

Regulation of *De Minimis* Discharges

National Rule

The national rule approach is the concept of devising a law or rule covering a specific category of *de minimis* discharges. The rule would present qualifying criteria for the types of facilities or activities that would be covered under the rule, as well as guidelines or national standards that must be met (similar to EPA National Ambient Air Quality Standards). No application or permitting, as such, would have to be completed; however, if a facility were found to be in violation of the rule, it would be required to be permitted under the standard NPDES permit program. EPA would follow standard administrative procedures for developing a rule, including proposal, public notice and comment, formal record, and promulgation.

EVALUATION OF POTENTIAL REGULATORY OPTIONS

The evaluation of each potential *de minimis* regulatory option considered the technical effectiveness of the option; that is, whether or not the concept of the option is feasible to implement. Also, the question of whether an option is workable and advantageous to permitting agencies, permittees, and the Agency was addressed. Regulatory options that will involve statutory changes were noted; however, an analysis of legal issues is not within the scope of this study and is not discussed.

The evaluation of technical effectiveness is discussed for all of the options, with the exception of the standard NPDES permit. The standard permit (in conjunction with model permitting) is the current method of permitting utilized by all Regional and State permitting agencies. This process (and its corresponding burden to regulatory agencies) is the underlying basis for the *De Minimis* Study and serves as a baseline of comparison for the

Regulation of *De Minimis* Discharges

other permitting options. An evaluation of potential *de minimis* regulatory options is presented in Table 3-2 and is discussed in detail below.

Model Permit: The model permit is a concept that has been promoted by the Agency in various forms. One form is the "NPDES Model Permit Format," which describes the standard form of a NPDES permit with standard and special conditions written in a prescribed format. Another form is "The NPDES Permit Abstracts," which outlines examples of actual permits that can be used as models for various industries. Currently, permitting agencies are using these streamlining tools. Some agencies have entered boilerplate language and qualitative guidelines onto word processors and modify this format as appropriate. It is also common practice to tailor a new discharge permit using another similar permit on file. Because this concept is so widely used and is merely a streamlining of the standard process, Regional and State agencies feel that it is not an option that would significantly reduce the administrative burden associated with the regulation of *de minimis* discharges.

General Permit: As stated previously, the general permit is currently utilized by a number of Regions and approved States (Appendix K). The consensus on the applicability of this option to *de minimis* discharges is positive, and general permits have had noted success in reducing burden for permitting agencies. Use of the general permit by permitting authorities allows the coverage of moderate to large numbers of facilities with one permit action, rather than multiple actions, and allows for new industries entering the area and meeting general permit criteria to be covered without new permit action. Where large numbers of related facilities contribute to permit backlogs, general permits can reduce this backlog, with substantial reductions in resources and costs when compared to individual permitting. In addition, potential savings can be realized by having to process only Notices of Intent (as opposed to complete applications) and not having to issue individual public

Table 3-2
Evaluation of Potential De Minimis Regulatory Options

Option	Advantages	Disadvantages
1. Model Permit	<ul style="list-style-type: none"> • Does not require a statutory change. • Can be used on word processors. • Generally involves minor permit changes. 	<ul style="list-style-type: none"> • Requires complete application and application processing. • Is merely a modification of the standard permit. • Is currently being used; would not reduce the burden associated with the permitting of <u>de minimis</u> facilities. • An individual permit must be processed for each discharger.
2. General Permit	<ul style="list-style-type: none"> • Does not require a statutory change. • Covers multiple dischargers under one permit. • May not require complete individual applications or public notice. • Covers the same areas as a standard permit. • Facilities may be permitted under the standard NPDES program if they are not meeting general permit requirements. • Requires less time and money to process a facility. • Reduces permit issuance backlogs. • Can cover discharges previously unpermitted due to resource constraints. • May automatically cover new discharges. 	<ul style="list-style-type: none"> • Currently in use by only 17 States. • Requires Regional and/or EPA Headquarters review. • May be difficult to apply to waters with widely different water quality standards.
3. Ten-Year Permit	<ul style="list-style-type: none"> • Would delay the reissuance of permits for minor facilities so the backlog of expired and unpermitted facilities could be reduced. • May free up more resources for compliance, monitoring, and inspection. • May involve abbreviated applications. 	<ul style="list-style-type: none"> • Requires a statutory change. • Too many regulatory changes may occur over the extended term. • Term may be too long for process-oriented discharges. • Inspection still may be required. • Effluent change could occur over this period.
4. Over-the-Counter Permits	<ul style="list-style-type: none"> • Could involve abbreviated application and permit issuance. • Would reduce the time required for permit processing. • Would still yield an individual permit. 	<ul style="list-style-type: none"> • May require a statutory change. • May eliminate public notice. • May cause Regional/State procedural problems.
5. Exclusion by Waiver from the NPDES Program	<ul style="list-style-type: none"> • May transfer regulation for some types of discharges to more appropriate agencies. • May eliminate loopholes for noneffluent-type discharges. • Has been shown to reduce resources required to conduct an effective discharge regulatory program (CA land discharges). 	<ul style="list-style-type: none"> • Requires a statutory change. • May eliminate all means of regulation. • Would require case-by-case designation. • May promote the impairment of receiving waters.

Table 3-2
 Evaluation of Potential De Minimis Regulatory Options (continued)

Option	Advantages	Disadvantages
6. National Rule	<ul style="list-style-type: none"> · Would instantaneously provide regulation for unpermitted discharges. · Would involve a Notice of Intent or no application process. · Dischargers could be recaptured under the standard permit program if needed. 	<ul style="list-style-type: none"> · Requires confirmation as <u>de minimis</u> before site-specific investigations are conducted. · Probably requires statutory change . · May require inspections and possibly audits. · May require monitoring by facilities. · May cause difficulty in compliance and enforcement.

Regulation of *De Minimis* Discharges

notices for each discharger. Although the general permit has noted advantages, some potential drawbacks do exist. The development of a general permit is a rulemaking that requires substantial data gathering on the part of the permitting agencies rather than the applicants. General permits may be difficult to issue in areas with varying State standards, and a significant number of similar discharges must exist within a category for a general permit to be administratively worthwhile.

In addition, during the survey conducted for this study, both Regional Offices and State agencies expressed concern that, although the General Permit Program appears to be an appropriate regulatory option for minor facilities, streamlining State delegation and EPA review of draft permits is necessary to maximize its potential (Appendix D).

Ten-Year Permit: The idea of a ten-year permit provoked mixed reactions from Regional and State agencies during the survey conducted for this study. The basis of the long-term permit is to extend the reissuance dates of many minor permits so that the backlog of these permits and unpermitted discharges could be reduced. Note that, pursuant to the Administrative Procedures Act, 5 U.S.C. 558 (c), an otherwise expired permit is automatically extended until the effective date of the new permit provided that a timely and sufficient permit application is filed. Statutory change increasing the maximum life of permits may not have a significant effect on the frequency at which permits for *de minimis* discharges are re-issued, but it could significantly reduce the opportunity to incorporate regulatory changes when necessary (e.g., effluent guidelines or State water quality standards) and would delay receipt of the detailed information required in permit applications. Because of the extended life of the permit, it would be essential that the discharge be of a truly *de minimis* nature, so that the potential for environmental impact would remain low over the term of the permit.

Regulation of *De Minimis* Discharges

Some specific concerns expressed by various agencies included the following: (1) the 10-year term may be too long for process-oriented technologies, which change more frequently (Appendix D); (2) inspection of facilities or activities should still remain a part of the regulatory process; and (3) the ten-year permit may not easily be integrated into all permitting programs.

Over-the-Counter Permits: Over-the-counter processing could reduce the expected burden of permitting *de minimis* facilities in two ways. The application submittal and processing for *de minimis* facilities could be abbreviated. Permittees could come to the permitting office following a pre-application phone conversation, and a draft permit could be developed at that time using a standardized permit format. If public notification could be bypassed for these facilities or activities, a final permit could be issued at the same time. Bypass of public notification would require a statutory change. Publication of a list of permittees covered by over-the-counter permits could be an alternative to public notice.

In the survey conducted for this study, Regional and State permitting agencies felt that this option may be applicable for only a few types of *de minimis* discharges and may cause procedural problems (Appendix D).

Exclusion from the NPDES Program: Industry representatives who originally proposed the concept of *de minimis* to Congress believed that many types of discharges could be excluded from the NPDES system because they have effluents that contain nothing that could degrade the water quality of the receiving waters. As originally stated in this report, it is the belief of the Agency and permitting agencies alike that all discharges (particularly process-oriented discharges) to surface waters may have an environmental impact at one time or another because of constantly changing process, climatic, and ecological parameters. Still, some Regional and State permitting offices feel that there are certain instances or

Regulation of *De Minimis* Discharges

certain groups of discharges that may be excluded from the NPDES program. Most permitting agencies mentioned that a case-by-case designation of discharges or activities that could be excluded from NPDES would be the only appropriate means of utilizing this option, and that a means to recapture discharges under the NPDES program, should the situation change, must be available (Appendix D).

The State of California uses a system of exclusion for non-NPDES land discharges. It allows site-specific or categorical exclusion of certain types of discharges, as well as a clause that makes the exclusion conditional. The program is described as follows:

- **Exclusion by Waiver:** The permitting agency has a statutory obligation to prescribe discharge requirements (permits), except where a waiver is not against the public interest; and the agency stipulates that any waiver of application and permitting shall be conditional and may be terminated at any time by the permitting agency. A waiver may be used when it is not against public interest; it enables the agency resources to be used more effectively; and discharges fall within one of the following categories: (1) the discharge is effectively regulated by other public agencies; (2) the discharge is effectively regulated by the facility pursuant to State regulations or guidelines; or (3) the discharge does not adversely affect the quality or the beneficial uses of the waters of the State.

National Rule: A national rule approach would allow the instantaneous regulation of large groups of *de minimis* discharges by coverage under a general rule. The rule would state the coverage of specified activities and corresponding national standards that would apply to the facility. A notice of intent may or may not be a part of the permit-by-rule process. Although this process would not yield an individual permit for facilities covered by the rule, it would provide a means of regulation for many *de minimis* activities that currently cannot be permitted because of resource and financial restraints of the permitting agencies.

Regulation of *De Minimis* Discharges

Two variations on the concept of national rule have been developed by the Agency and are presented as follows:

- **The Self-Elimination Process:** After the Agency has published definitive guidance on the characteristics of a *de minimis* discharge, the facility would submit an NPDES application (or Notice of Intent), which includes sworn affidavits affirming the facility or activity as a confirmed *de minimis* discharge. The Region/State would accept this evaluation and certify *de minimis* status. Facilities would not be required to report monitoring data, but would be subject to unannounced inspections. If inspection shows failure to hold to *de minimis* standards, the owner or operator of the facility or activity would be liable for fines and/or jail sentences. Should the facility report itself in the event of an unforeseen accident, the regulator would have the option of either returning it to *de minimis* status or requiring standard NPDES status.
- **The No Response Process:** After the EPA definitive guidance is published, the facility would identify itself as *de minimis*. The choice of the "no response" mode may carry a specific schedule of monitoring on the part of the discharger, but the monitoring records would not be submitted to Regional or State offices unless they are requested. This request could be sudden, unannounced, and require immediate hand-over. All covered facilities or activities would be subject to unannounced inspections. The punishment for violations would be the same as described in the above option.

Chapter Four

UNIT RESOURCE AND COST COMPARISONS FOR POTENTIAL REGULATORY OPTIONS

In this chapter, the unit (per facility) resources and costs to the permitting agency of the potential regulatory options are assessed and compared to evaluate relative economic feasibility. The national rule approach will not be evaluated since it requires that classes of discharges be confirmed as *de minimis* before any site-specific investigations are conducted. EPA's limited data base prevents this confirmation.

The following topics are discussed: (1) development of a permitting resource model, (2) sources of data used in the analysis, and (3) a comparison of unit cost savings of alternative regulatory options when compared to the standard/model (baseline) permitting procedure. Administrative costs to industry were not evaluated.

DEVELOPMENT OF PERMITTING RESOURCE MODEL

Using a modification of a North Carolina case study (Appendix M) that includes only secondary discharges, a permitting resource model was developed as a baseline for comparison to other regulatory options. The resources required to perform various permitting steps (in terms of person-hours) represent empirical values relevant to a national analysis; however, generic costs associated with the various permitting steps had to be developed to estimate average national permitting costs and cost savings.

Ten geographically distributed permitting agencies that were contact agencies or work group members were surveyed to determine the average skill levels and salary profiles of

Resource and Cost Comparisons

personnel administering the various permitting steps (Table 4-1). Six permitting levels of personnel were identified, along with corresponding base salaries (excluding fringe and indirect costs), for each of the permitting steps. The hourly salary rates were then averaged to derive six national generic costs associated with the various permitting steps. These generic costs were incorporated into the permitting resource model to yield average costs of permitting steps and total costs of permits for secondary facilities using a "minimum reputable standard/model permitting procedure." These data are summarized in Table 4-2 and represent the resources and costs associated with baseline permitting of a secondary facility.

Tables 4-3 through 4-6 are similar tables that incorporate the various steps involved in the four alternative regulatory options (General Permit, Ten-Year Permit, Over-the-Counter Permit, and Exclusion by Waiver), and represent the estimated resources and costs associated with typical scenarios of coverage under these options.

SOURCES OF DATA

Data used in this assessment were compiled from the sources listed below:

North Carolina's Department of Natural Resources and Community Development Effort and Cost of Permitting Study, April 1986: A detailed case study by the State of North Carolina Water Quality Section outlines permitting steps involved in a "minimum reputable standard/model permitting program." Effort, in terms of person-hours, was estimated for each permitting step, and weighted average salaries based on North Carolina

Table 4-1

Development of Average Generic Costs Associated with Various Permitting Steps

General Title/Permit Steps	Permitting Agency - Hourly Rates											
	Region I	NJ	PA	NC	WI	Region VI	MO	Region VIII	CA	WA		
Clerk/Typist (Data Entry)	\$7.43	\$6.25	\$7.36	\$5.20	\$8.03	\$7.27	\$5.77	\$7.27	\$8.11	\$8.08		
											AVERAGE GENERIC SALARIES:	\$7.07 === > \$7.00
Env. Technician Low (Permit Issuance, Renewals)	\$9.00	\$11.85	\$10.22	\$8.25	\$8.65	\$7.27	\$7.49	\$9.00	\$12.98	\$10.36		
											AVERAGE GENERIC SALARIES:	\$9.44 === > \$9.50
Env. Technician High or Env. Chemist Low or Env. Biologist Low (Field Inspections, DRM Review, Lab Work)	\$13.33	\$11.85	\$11.08	\$10.28	\$12.50	\$11.01	\$9.81	\$15.97	\$13.44	\$11.94		
											AVERAGE GENERIC SALARIES:	\$12.12 === > \$12.00
Engineer I Low (Development of Draft Permit)	\$14.03	\$14.34	\$11.08	\$12.15	\$11.60	\$11.70	\$11.55	\$16.33	\$13.21	\$12.85		
											AVERAGE GENERIC SALARIES:	\$12.88 === > \$13.00
Engineer II Mid (Supervises 3-5 people, Public Hearings)	\$15.09	\$15.16	\$14.31	\$14.32	\$14.47	\$16.34	\$13.68	\$18.99	\$20.53	\$14.91		
											AVERAGE GENERIC SALARIES:	\$15.78 === > \$15.50
Program Supervisor (Supervises 5-15 People)	\$18.99	\$16.73	\$16.33	\$15.13	\$16.78	\$18.99	\$14.26	\$18.99	\$22.50	\$15.28		
											AVERAGE GENERIC SALARIES:	\$17.40 === > \$17.50

NOTE: Data were gathered by written and phone surveys and represent 1988 base salaries.

Resource and Cost Comparisons

Table 4-2

Effort and Cost of Standard/Model NPDES Permitting
(Secondary Facilities)

Generic Permitting Steps	Cost/Hr	Person-Hr	Cost
Pre-Application Discussion	\$13.00	4.7	\$61.10
Application Processing	\$7.00	2.4	\$16.80
Development of a Draft Permit:			
a) Initial Engineer Review	\$13.00	9.4	\$122.20
b) Staff Report	\$13.00	12.6	\$163.80
c) Wasteload Allocation (Level B)*	\$13.00	6.3	\$81.90
d) Review Monit. Data Bases	\$12.00	0.6	\$7.20
e) Data Entry	\$7.00	0.6	\$4.20
f) Final Engr. Rev./Draft Permit	\$13.00	3.6	\$46.80
Public Notice (Labor)	\$7.00	0.6	\$4.20
Public Notice (Publication)			\$50.00
Public Hearing	\$15.50	54.4	\$843.20
Final Permit Issuance	\$9.50	0.6	\$5.70
Records/Data Management	\$7.00	4.4	\$30.80
Compliance Monitoring and Inspection			
a) 5-Year Composite Inspections**	\$12.00	99.9	\$1,198.80
b) DMR Review	\$13.00	0.6	\$7.80
Renewal Notice	\$9.50	0.6	\$5.70
Supervision†	\$17.50	-	-
Total Effort and Cost:		146.9	\$1,807.00
If Hearing Is Required:		201.3	\$2,650.20

*Simple allocation using a package model.

**Does not include chemical laboratory costs.

†Due to difficulty in estimating, omitted from analysis.

Resource and Cost Comparisons

Table 4-3
Effort and Cost of Issuing General Permit Coverage
(Secondary Facilities)

Permitting Steps	Generic Cost/Hr	Person-Hr	Cost
Notice of Intent Processing	\$7.00	2.4	\$16.80
Data Entry	\$7.00	0.6	\$4.20
Certification of Coverage (Issuance)	\$9.50	0.6	\$5.70
Records/Data Management	\$7.00	4.4	\$30.80
Compliance Monit. and Inspection			
a) 5-Year Composite Inspections*	\$12.00	99.9	\$1,198.80
b) DMR Review	\$13.00	0.6	\$7.80
GP Developmental Costs**	\$14.25***	9.1	\$129.68
Supervision†	\$17.50	-	-
Total Effort and Cost:		\$117.6	\$1,393.78

* Does not include chemical laboratory costs.

** Average development costs per facility = 600 hours for the development of a non-OCS general permit (EPA workload model)/66 facilities per general permit (based on survey data average - Appendix L) = 9.1 hours.

*** Average of the generic costs for an Engineer I and an Engineer II.

† Due to difficulty in estimating, omitted from analysis.

NOTE: Public notice costs are assumed to be negligible on a per facility basis.

Resource and Cost Comparisons

Table 4-4

Effort and Cost of Ten-Year Permitting
(Secondary Facilities)

Permitting Steps	Generic Cost/Hr	Person-Hr	Cost
Pre-Application Discussion	\$13.00	4.7	\$61.10
Application Processing	\$7.00	2.4	\$16.80
Development of a Draft Permit:			
a) Initial Engineer Review	\$13.00	9.4	\$122.20
b) Staff Report	\$13.00	12.6	\$163.80
c) Wasteload Allocation (Level B)*	\$13.00	6.3	\$81.90
d) Review Monit. Data Bases	\$12.00	0.6	\$7.20
e) Data Entry	\$7.00	0.6	\$4.20
f) Final Engr. Rev./Draft Permit	\$13.00	3.6	\$46.80
Public Notice (Labor)	\$7.00	0.6	\$4.20
Public Notice (Publication)			\$50.00
Public Hearing	\$15.50	54.4	\$843.20
Final Permit Issuance	\$9.50	0.6	\$5.70
Records/Data Management	\$7.00	4.4	\$30.80
Compliance Monit. & Inspection			
a) 5-Year Composite Inspections**	\$12.00	199.8	\$2,397.60
b) DMR Review	\$13.00	0.6	\$7.80
Renewal Notice	\$9.50	0.6	\$5.70
Supervision†	\$17.50	-	-
Total Effort and Cost:		246.8	\$3,005.80
If Hearing Is Required:		301.2	\$3,849.00

* Simple allocation using a package model.

** The resources associated with monitoring and inspection are two times that of the standard permit to achieve the same annual levels of inspection over the 10-year term. Does not include chemical laboratory costs.

† Due to difficulty in estimating, omitted from analysis.

Resource and Cost Comparisons

Table 4-5
Effort and Cost of Over-the-Counter Permitting
(Secondary Facilities)

Permitting Steps	Weighted Cost/Hr	Person-Hr	Cost
Pre-Application Discussion	\$13.00	4.7	\$61.10
Application Processing*			
Development of a Draft Permit:*			
a) Initial Engineer Review	\$13.00	8.0	\$104.00
b) Review Monit. Data Bases			
c) Final Engr. Rev./Draft or Final Permit			
d) Data Entry	\$7.00	0.6	\$4.20
Public Notice (Labor) (Optional)	\$7.00	0.6	\$4.20
Public Notice (Publication) (Optional)			\$50.00
Records/Data Management	\$7.00	4.4	\$30.80
Compliance Monit. & Inspection			
a) 5-Year Composite Inspections**	\$12.00	99.9	\$1,198.80
b) DMR Review	\$13.00	0.6	\$7.80
Renewal Notice	\$9.50	0.6	\$5.70
Supervision†	\$17.50	-	-
Total Effort and Cost:		118.8	\$1,412.40
If Public Notice Is Required:		119.4	\$1,466.60

* Assumes that the over-the-counter process of application processing and permit development can occur in one working day.

** Does not include chemical laboratory costs.

† Due to difficulty in estimating, omitted from analysis.

Resource and Cost Comparisons

Table 4-6
Effort and Cost of Exclusion by Waiver
(Secondary Facilities)

	Generic Cost/Hr	Person-Hr	Cost
Pre-Notice of Intent Discussion	\$13.00	4.7	\$61.10
Notice of Intent Processing	\$7.00	2.4	\$16.80
Certification of Waiver	\$9.50	0.6	\$5.70
Records/Data Management	\$7.00	4.4	\$30.80
Supervision†	\$17.50	–	–
Total Effort and Cost:		12.1	\$114.40

† Due to difficulty in estimating, omitted from analysis.

Resource and Cost Comparisons

data were also included. This study and its corresponding methodology are included in Appendix M.

EPA Permit Issuance Workload Model, 1987: This EPA model predicts levels of effort involved in the permitting of various types of discharges (e.g., minor municipal, minor industrial, and general permits). The model, including outputs, workloads, and resources, is included in Appendix N.

EPA Regional and State Permitting Agencies: Supporting information was obtained from the EPA Regional permitting authorities and State permitting agencies to assist in the economic assessment of the various regulatory options. Statistical information on the resources required for the development of options, permitting staff salary information, the average number of discharges covered under a general permit, and other pertinent data were compiled and assessed.

UNIT COST COMPARISONS

The projected resources, costs, and unit savings (in relation to the standard/model baseline) are presented in Table 4-7.

If unit savings are ranked in descending order, the following results are obtained:

	Resource Savings (Percent)	Cost Savings (Percent)
1. Exclusion by Waiver:	91.8	93.7
2. General Permit:	19.9	22.9
3. Over-the-Counter Permits:	19.1	21.8
4. Ten-Year Permit:	16.0	16.8

Resource and Cost Comparisons

Table 4-7
Unit Resource and Cost Comparison

Regulatory Options	<u>Unit Resources</u> Person-Hour	<u>Unit Costs</u> Dollars	<u>Unit Savings*</u>	
			Resources	Dollars
Standard/Model Permit (Baseline)	146.9	\$1,807.00	0.0 (0%)	\$0.00 (0%)
General Permit	117.6	\$1,393.78	29.3 (19.9%)	\$413.22 (22.9%)
Ten-Year Permit**	123.4	\$1,502.90	23.5 (16.0%)	\$304.10 (16.8%)
Over-the-Counter Permit	118.8	\$1,412.40	28.1 (19.1%)	\$394.60 (21.8%)
Exclusion by Waiver	12.1	\$114.40	134.8 (91.8%)	\$1,692.60 (93.7%)

*Savings are in relation to the Standard/Model Permit (Baseline).

**Costs are divided by 2 to represent costs over a 5-year term.

Chapter Five

CONCLUSIONS AND RECOMMENDATIONS

The preceding chapters have summarized EPA's current information about the type of discharges that may be classified as *de minimis*, evaluated the existing and alternative methods of regulating such discharges, and assessed the potential unit cost savings to the permitting agency in terms of resources and dollars that could be attributed to the alternative regulatory options used to permit *de minimis* discharges. This chapter provides conclusions on the Agency's findings, as well as recommendations concerning the most effective and appropriate methods of regulating *de minimis* discharges.

IDENTIFICATION OF *DE MINIMIS* DISCHARGES

Based solely on readily available data systems within the Agency, approximately 1.2 percent of discharges into navigable waters can be identified as potential *de minimis* (e.g., not significant) discharges. The data base used to make this determination was extremely limited since most data gathering and permitting activities have concentrated on major discharges. Because the data on most minor facilities are limited, entire groups of dischargers were screened out from the category of potential *de minimis* if there was reason to conclude that a group of permittees contained at least a reasonable number of dischargers that could not be considered *de minimis*. The Agency approached the *de minimis* classification in this manner to avoid overestimating the number of *de minimis* discharges. As a result, the projected number of potential *de minimis* discharges may be underestimated; some facilities that were categorically excluded could be determined to qualify as *de minimis* if it were possible to examine them on a case-by-case basis. All potential *de minimis* facilities should be subject to site-specific criteria (e.g., toxic pollutant discharge,

Conclusions and Recommendations

flow/stream flow volume, water quality factors) to confirm the discharge as *de minimis* or *non-de minimis* and to ensure that water quality is not significantly impacted.

The best data systems available to the Agency for use in the classification of *de minimis* discharges are not up-to-date and are known to lack information on minor discharges, which are the only candidates for potential *de minimis* classification. EPA is currently updating its data systems. In addition, the designation of SIC codes has been refined by the Agency's Office of Wastewater Enforcement and Compliance (OWEC) for the probable discharge of toxic pollutants from an industry, based on assignment of toxicity indices. The criteria used by OWEC to designate a discharge as major or minor have also been revised and full implementation occurred on July 1, 1991. The revised criteria will be applicable for use by permitting authorities to confirm a facility's discharge as *de minimis* or *non-de minimis*. This information updating may enable EPA to develop a more accurate and complete profile of *de minimis* discharges in the future and to develop regulatory and management programs as needed.

REGULATORY OPTIONS

Alternative types of regulations were considered for discharges that are determined to be *de minimis*, which may reduce the regulatory/administrative burden on the regulatory agencies as well as on industry. Potential regulatory options include general permits (currently administered under existing regulations), the ten-year permit, over-the-counter permitting, exclusion by waiver from the NPDES program, and a national rule approach. As previously mentioned, the national rule approach was not evaluated because of the limited data base. Options other than the general permit approach may require statutory changes. As this report does not review these legal issues, closer legal and technical scrutiny would be appropriate if further consideration of other options is deemed warranted.

Conclusions and Recommendations

General Permits

The technical and economic evaluations performed in this study indicate that general permits are the most effective and appropriate method, from the permitting agency's perspective, of regulating *de minimis*-type discharges at this time, if a sufficient number of potential *de minimis* discharges are confirmed within a specified geographical or political boundary (Table 5-1). This conclusion is based on the following information:

- **Resource and Cost Savings:** Unit resource and cost savings attributed to the permitting of *de minimis* discharges using general permits, although approximate, are shown to be significant. Twenty and 23 percent unit savings are projected for resources and costs, respectively.
- **Regulatory Authority:** The regulatory authority for the General Permit Program is already in place. EPA proposed general permit regulations in 1977; they were published as final in June 1979.
- **Utilization:** The General Permit Program is currently utilized by a number of Regions and approved States with noted success in reducing the burden for permitting agencies. The State of Wisconsin has an extensive and effective General Permit Program that covers one-half of the facilities or activities within the State. The majority of these discharges are minor discharges.
- **Positive Consensus:** A positive consensus was received from EPA Regional and State permitting authorities on the applicability of the general permit.

Conclusions and Recommendations

Table 5-1
Summary of Regulatory Option Evaluations

Statutory/ Permitting Option	Regulatory Change	Utilization	Estimated Unit Savings		Positive Consensus from Permitting Authorities
			Resource (Percent)	Cost (Percent)	
General Permit	No	28 NPDES States plus 16 non-NPDES States or Territories	20	23	Yes
Ten-Year Permit	Yes	California non-NPDES extended- life permits	16	17	Yes
Over-the- Counter Permit	Maybe	New Jersey non-NPDES permits	19	22	No
Exclusion by Waiver	Yes	California for land discharges (non-NPDES)	92	94	Yes

Conclusions and Recommendations

Concern has been expressed by EPA and State authorities that although the general permit appears to be an appropriate regulatory option for *de minimis* discharges, the need exists for better communication and coordination in the State approval and permit review process to help streamline State authority and permit approval. The Agency has developed guidance in the form of manuals, briefing papers, and other documents that describe the uses and benefits of the General Permit Program; has assisted authorities in the development and issuance of general permits; and has identified model general permits that have already been developed.

Ten-Year Permits

The ten-year permit concept shows estimated unit savings of 16 and 17 percent for resources and costs, respectively, and a positive consensus among permitting authorities. However, a statutory change would be required.

Over-the-Counter Permits

Over-the-counter permits are estimated to have low applicability within the current NPDES program and did not generally receive positive reactions from permitting authorities. Unit resource and cost savings are estimated at 19 and 22 percent, respectively. If this process is to incorporate a bypass of public notice, a statutory change would be required.

Exclusion by Waiver

Exclusion by waiver would be a site-specific means of excluding discharges from the NPDES program. Permitting authorities felt that there may be a need for site-specific exclusion for special types of discharges because they are regulated by other agencies, they

Conclusions and Recommendations

are short-term and intermittent, or they have a unique noneffluent nature. Unit resource and cost savings were estimated at 92 and 94 percent, respectively. Exclusion by waiver would require a statutory change. Additional study would be needed to determine whether exclusion by waiver, which would result in the greatest cost savings, could provide an effective measure of dealing with *de minimis* discharges under the appropriate site-specific circumstances, including ensuring insignificant risk to the environment.

National Rule

A national rule approach would be a means of regulating classes of *de minimis* discharges without having the administrative burden of processing permit applications or issuing permits at the State level. The national rule approach may require a statutory change.

RECOMMENDATIONS FOR IMPLEMENTATION

EPA recognizes that there may be point source discharges into navigable waters that, in terms of volume, concentration, and type of pollutant, are not significant (i.e., *de minimis*). The general permit is recommended as the most effective and appropriate method, at this time, of regulating such discharges to reduce the regulatory and administrative burden on permitting agencies as well as industry. However, the general permit will be effective only if the number of potential *de minimis* discharges within a specified geographical or political boundary is adequate to make the permit administratively worthwhile. Because of the low number of projected *de minimis* discharges (893 facilities), a general permit may not be effective in all cases. Implementation of individual 5-year permits based on standard "models" issued by EPA as guidance would be appropriate.

Conclusions and Recommendations

Implementation of other options may also not be cost-effective if there is a low number of *de minimis* discharges.

The following activities should be undertaken if further evaluation of a *de minimis* regulatory program is deemed warranted:

- EPA should continue to strongly encourage States that currently do not have general permit authority to seek such authority. (Eleven States were granted general permit authority between January 1, 1991, and September 30, 1991. Eleven States with NPDES authority still do not have general permit authority.)
- A strong technical assistance and information transfer effort should be established between the Agency and permitting authorities to ensure that a *de minimis* regulatory program would proceed smoothly and expeditiously.
- Data systems and site-specific criteria should be updated and fully developed to assist the permitting authorities in determining which discharges are truly *de minimis*.
- The general permit program should be reviewed to determine whether it can be further simplified and streamlined, allowing for flexibility in implementation and processing.
- EPA should consider conducting further legal and technical evaluations of alternative regulatory options.
- EPA should consider assessing, through on-site surveys in watersheds, whether *de minimis* discharges are found in groups categorically excluded from *de minimis* through the methodology used in this report.
- EPA should consider consulting with potentially affected industrial groups to determine the relative cost savings to *de minimis* dischargers of the regulatory options identified.
- To the extent that the Agency determines that an option which requires statutory change is the more appropriate approach, such change should be dealt with as part of the CWA reauthorization process.

APPENDICES

- Appendix A: Legislative History**
- Appendix B: Regional Contact Questionnaire**
- Appendix C: Survey Results - Potential *De Minimis* Discharges**
- Appendix D: Survey Results - Potential Regulatory Options**
- Appendix E: Toxicity Indices for Industrial Subcategories**
- Appendix F: Classification of Major and Minor Permits**
- Appendix G: Secondary Facilities - Toxic Discharge**
- Appendix H: Secondary Facilities - Effluent Guidelines**
- Appendix I: Secondary Facilities - Permit Limitations**
- Appendix J: Secondary Facilities - Potential *De Minimis***
- Appendix K: State NPDES Program Status**
- Appendix L: General Permit Information**
- Appendix M: North Carolina Case Study**
- Appendix N: EPA Permit Issuance Workload Model**

APPENDIX A

Legislative History

This appendix provides the legislative history of the *De Minimis* Discharge Study beginning with the first mention in the 1982 public record of the exclusion of "insignificant discharges" from the requirements of the NPDES permits.

Statement of James C. Hildrew, Manager, Environmental Affairs, Mobil Oil Corporation, on July 28, 1982, on behalf of the American Petroleum Institute before the Subcommittee on Water Resources of the Committee on Public Works and Transportation, U.S. House of Representatives [As printed in Committee Print 97-73, Possible Amendments to the Federal Water Pollution Control Act, pp. 1013 - 1016, published by U.S. Government Printing Office, Washington, 1982].

II. National Pollutant Discharge Elimination System (NPDES) Permits Program

Section 402 of the Clean Water Act (CWA) establishes the NPDES permit program. Under this program, all point source discharges of pollutants to navigable waters must have an NPDES permit. Because the permit program imposes an unnecessarily heavy burden in terms of time and resources on government and industry, some modification of the program requirements is necessary. Specifically, the petroleum industry is concerned with the lifetime of NPDES permits and the fact that insignificant discharges are included in the NPDES permit program.

A. NPDES Permit Term Extension -- Under Section 402 of the CWA, NPDES permits may be written for a period not to exceed five years. The proposed revision to Section 402 would extend this period up to ten years.

The existing five year maximum lifespan for NPDES permits imposes unnecessary burdens on industry, EPA and states alike. It may take as long as a year for a final permit to be issued. Additionally, up to three years may be required to install

treatment technology necessary to comply with permit conditions. Under this scenario, the effectiveness of existing permit conditions may not be ascertainable by the time the permit application and issuance process must be repeated since the permittee may have only one year of actual experience in the effectiveness of the particular technology.

Extending the lifetime of an NPDES permit would not adversely impact water quality. Section 122.9(a) of EPA's Consolidated Permit Regulations authorizes issuance of permits for durations less than the full allowable term. Moreover, Section 402(b)(1)(C) of the Act provides for the termination or modification of an extant NPDES permit for cause. Therefore, EPA and the states have adequate flexibility to issue fixed life permits of less than ten years duration and to reopen a permit which was issued for a full ten-year term if individual conditions warrant such treatment.

API supports the Administration's efforts to place the Clean Water Act on parity with other environmental statutes. Congress has not placed restrictions on the duration of permit terms under other environmental statutes such as the Resource Conservation and Recovery Act (RCRA) and the Clean Air Act.

B. Excluding Insignificant Discharges -- An additional burdensome problem with Section 402 is the application of permit requirements to environmentally insignificant point source discharges. Thousands of discharges, including many sources of storm water runoff, have little or no adverse impact on water

quality yet are regulated under the NPDES permit program. This is both time consuming and costly and imposes an unreasonable and unnecessary burden on both state and EPA permit issuing authorities and industry. Faced with the enormous task of renewing permits for major point source discharges, it is doubtful that permit issuing authorities will be able to act on most minor discharge permit applications during the next several years.

During the first round of NPDES permit issuances under the Federal Water Pollution Control Act of 1972, EPA attempted to exclude many storm water discharges containing insignificant quantities of pollutants from NPDES permit requirements. This exclusion was challenged by the National Resources Defense Council (NRDC) which claimed that EPA had no authority under the Act to exclude any point source discharges of pollutants.^{3/} The court agreed with NRDC and as a result EPA now believes that it has little or no discretion in its application of the permit program.

Based on a survey of 39 states, the Association of State and Interstate Water Pollution Control Administrators in May 1979 reported that a total of 5,808 major and 36,090 minor NPDES discharge permits had been issued to both industrial and municipal dischargers.^{4/} The report stated: "about 51 percent of all permits issued ... involved relatively insignificant facilities with respect to point source pollution concerns." In spite of EPA's efforts, there are still thousands

of permit applications (some submitted as long ago as 1972) for small sources that have not yet been acted upon and on which the permit issuing authorities have little interest in acting.

The resources of government and industry should be directed toward eliminating major sources of pollution to the nation's waters and should not be diluted by the necessity to include minor or insignificant discharges under the NPDES permit program. By reducing the NPDES permit requirement from almost universal coverage to a more realistic level, both industry and government will be able to better focus on the real problem areas affecting the environment.

API believes that the Clean Water Act needs further amendment in this area. Specifically:

- o The EPA Administrator should be given specific authority to exempt environmentally insignificant discharges from the requirements of the NPDES permit program. This authority should be sufficiently flexible to allow both exclusion of appropriate discharges such as storm water run-off from a category or class of point sources as well as case-by-case exemptions. An expedited procedure should be established for case-by-case exemptions.

Testimony of New York State Commissioner of Environmental Conservation, Robert F. Flacke, on July 29, 1982, before the Subcommittee on Water Resources of the Committee on Public Works and Transportation, U.S. House of Representatives [As printed in Committee Print 97 - 73, Possible Amendments to the Federal Water Pollution Control Act, pp. 1506 - 1507, published by U.S. Government Printing Office, Washington, 1982].

11. NPDES Permit Term Extension (Section 402)

This amendment provides for extension of NPDES permit terms from five years to no more than ten years.

The paper, time, and resources involved in issuing a NPDES delegated permit are considerable, both on the part of the regulating agency and the source owner. Permits for major sources now average thirty pages, four months processing time, and cost thousands of dollars to issue. Since DEC was delegated NPDES authority in October of 1975, over 7,000 dischargers have received permits. The first group of permits issued in late 1975 and those issued by EPA prior to delegation have expired and are now subject to renewal.

The original legal requirements for industry and municipalities under the 1972 amendments mandated various levels of treatment to be achieved by 1977 and 1983. The 1977 date was within a five-year time frame from the enactment date but the 1983 date was not. As a result, first time permits were issued by EPA and/or DEC with many expiring within a few years of the next plateau, i.e. July 1, 1983, with no legal right to include the 1983 requirements (besides the chronological difficulties, the lack of promulgated standards was paramount and such were highly publicized).

Now we are at a point where the so-called second round drafting of permits must be accomplished quickly to provide the permittee sufficient time to meet the original 1983 requirements (now proposed for extension to 1988). If permits are issued in a timely manner during 1982, the expiration would be in 1987 under the present five (5)-year duration limit. This end date may or may not be adequate should another amendment allow a further extension. The history of deadlines and amendments shows the five (5)-year time frame to be awkward and inappropriate.

Additionally, dischargers of a minor nature, which are about 80% of the permittees, need not be reviewed every five years. The unchanging nature of the waste streams and/or the lack of additional treatment requirements or need make permit renewal routine. The permit process would be enhanced substantially if permit duration were allowed beyond five (5) years. As well, resources saved from permit administration of minor sources could be reallocated to higher priority program areas, such as inspection and monitoring of major facilities.

Lastly, the law gives us the right to modify a permit at any time for cause, thereby partially negating the need to reissue on a more frequent basis.

New York recommends that the maximum period for which NPDES permits are valid be lengthened to ten years, while retaining the right to revise any permit more frequently.

Statement of J. William Haun, Chairman of Clean Water Project, National Environmental Development Association, on July 29, 1982, before the Subcommittee on Water Resources, Committee on Public Works and Transportation, U.S. House of Representatives [As printed in Committee Print 97 - 73, Possible Amendments to the Federal Water Pollution Control Act, pp. 1829 - 1830, published by U.S. Government Printing Office, Washington, 1982].

DeMinimis Discharges

The Act requires that a NPDES permit must be obtained for a point source discharge even if the discharge is small or contains only minute quantities of benign pollutants. In short, every source discharging water requires a permit. This is significantly different than such laws as the Clean Air Act which regulates sources only above certain size limits.

The NPDES permit program imposes time-consuming requirements not only on industry but upon permit-issuing authorities. Implementing regulations are complex and can require considerable effort and expense. The permit process may take months, and in some cases, years. In many cases the discharge is of little or no consequence to improved water quality but a permit is still required. For example, the law is so rigid that a permit is required for uncontaminated stormwater runoff channeled into ditches around an industrial plant.

Nearly everyone involved in the administration of the law acknowledges that a significant portion of the 60,000 permits involves insignificant sources.

It appears sensible to direct the Clean Water Act efforts of government and industry toward cleaning up significant pollution of the nation's waters, without unnecessary time, money, and attention aimed at permits for insignificant discharges. EPA is moving in this direction by setting priorities for renewal. But more can be done to unclog the system.

If discharges are de minimis, based on concentration, volume and type of discharge, and are insignificant to the protection of water quality, EPA should be given the flexibility to exempt sources or categories of sources from NPDES permit requirements.

NPDES Permit Life

Under the present law, NPDES permits must be renewed every five years even though it frequently takes more than one year for the final permit to be issued and up to three years to install treatment technology. A five-year permit life allows little time for the permit holder to test the effectiveness of the treatment before the permit renewal application process begins again. The need for renewal of permits every five years, or even more frequently in many instances, subjects EPA and the state agencies to substantial administrative burdens especially when considering the volume of permits in the system.

There is a growing consensus that the maximum allowable life of a NPDES permit should be extended from five to ten years. A 1980 House Subcommittee on Oversight and Review report titled "Implementation of the Federal Water Pollution Control Act" states that lengthening the period for which a permit remains valid will "provide greater stability and certainty to the NPDES program."

**REPORT OF COMMITTEES ON
PUBLIC BILLS AND RESOLU-
TIONS**

Under clause 2 of rule XIII, reports of committees were delivered to the Clerk for printing and reference to the proper calendar, as follows:

Mr. HOWARD: Committee on Public Works and Transportation. H.R. 3282. A bill to amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes with an amendment (Rept. No. 98-827). Referred to the Committee of the Whole House on the State of the Union.

Union Calendar No. 480

98TH CONGRESS
2D SESSION

H. R. 3282

[Report No. 98-827]

To amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JUNE 13, 1983

Mr. HOWARD introduced the following bill; which was referred to the Committee on Public Works and Transportation

SEPTEMBER 14, 1983

Additional sponsors: Mr. UDALL, Mr. OBERSTAR, Mr. JEFFORDS, Mrs. SCHNEIDER, Mr. TOWNS, Mr. LANTOS, Mr. BONIOR of Michigan, Mr. GUARINI, Mr. OTTINGER, Mr. RODINO, Mr. MARKEY, Mr. FAUNTROY, Mr. TALLON, Mr. FRANK, Mr. SUNLA, Mr. MITCHELL, Ms. MIKULSKI, Mr. SEIBERLING, Mr. FLORIO, Mr. EVANS of Illinois, Mr. D'AMOURS, Mr. CROCKETT, Mr. CLAY, Mr. CONYERS, Mr. VENTO, Mr. RATCHFORD, Mr. BARNES, Mr. COUGHLIN, Mr. STOKES, Mr. DIXON, Ms. KAPTUR, Mr. WEISS, Mr. JONES of Oklahoma, Mr. ECKART, Mr. DE LUGO, Mr. LEHMAN of Florida, Mr. SCHEUER, Mr. MINISH, Mr. BEILSON, Mr. MORRISON of Connecticut, Mr. GEJDESON, Mr. DONNELLY, Mr. LONG of Maryland, Mr. FAZIO, Mr. FORSYTHE, Mr. TORRICELLI, Mr. CARPER, and Mr. YATES

FEBRUARY 2, 1984

Additional sponsors: Mr. FISH, Mr. LOWBY of Washington, Mr. HUGHES, Mr. LEVINE of California, Mrs. SCHROEDER, Mr. DELLUMS, Mrs. BOXER, Mr. WEAVER, Mr. MCDADE, Mr. EDGAR, Mrs. BURTON of California, Mr. NEAL, Mr. BATES, Mr. KOLTER, Mr. BRAZEK, Mr. WHEAT, Mr. HOYER, Mrs. KENNELLY, Mr. BOSCO, Mr. WEBER, Mr. SHANNON, Mr. CLARKE, Mr. KOSTMAYER, Mr. MAVROULES, Mr. MOAKLEY, Mr. SMITH of New Jersey, Mr. BERMAN, Mr. HARKIN, Mr. WYDEN, Mr. OWENS, Mr. SABO,

5 **STUDY OF REGULATION OF DE MINIMIS DISCHARGES**

6 *SEC. 35. The Administrator of the Environmental Pro-*
7 *tection Agency shall study the feasibility and desirability of*
8 *eliminating the regulation of discharges of pollutants into the*
9 *navigable waters in amounts which, in terms of volume, con-*
10 *centration, and type of pollutant, are not significant. The Ad-*
11 *ministrator shall submit a report of such study along with*
12 *recommendations to the Committee on Public Works and*
13 *Transportation of the House of Representatives and the Com-*
14 *mittee on Environment and Public Works of the Senate not*
15 *later than one year after the date of enactment of this Act.*

HR 3282 RH

Testimony of New York State Commissioner of Environmental Conservation, Henry G. Williams, on September 20, 1983, before the Committee on Public Works and Transportation, U.S. House of Representatives [As printed in Committee Print 98 - 33, Possible Amendments to the Federal Water Pollution Control Act, p. 369, published by U.S. Government Printing Office, Washington, 1984].

4. NPDES PERMIT DURATION

Ten-year permits would give regulating agencies the ability to concentrate their resources on permit compliance rather than permit administration. Obvious advantages to the permittee are a reduction in paperwork and a more stable basis on which to make business decisions.

In New York, ninety percent of the point source pollution load comes from ten percent of the sources. Ten-year permits will allow us to concentrate our resources on the more significant discharges. We've always had, and should continue to have, the authority to revise permits prior to their expiration to update permit requirements or schedules. It is recommended that the duration of NPDES permits be extended from five to no more than ten years.

Statement of O. G. Simpson, Atlantic Richfield Company, Dallas, Texas, on October 24, 1983, before the Committee on Public Works and Transportation, U.S. House of Representatives [As printed in Committee Print 98 - 33, Possible Amendments to the Federal Water Pollution Control Act, p. 3604, published by U.S. Government Printing Office, Washington, 1984].

7. Authorize de minimis exemptions.

Unlike the Clean Air Act and other pollution control statutes, the Clean Water Act makes no allowance in its permit requirements for small point source dischargers of conventional pollutants. This lack of consideration imposes unnecessary control requirements on insignificant dischargers and prevents full concentration of resources on control of more important sources of pollution. The Clean Water Act should be amended to allow EPA to establish de minimis classes of point source dischargers of conventional pollutants. A de minimis discharger would be required to file a request for exemption and appropriate documentation relative to the proposed discharge with EPA or the state, as the case may be; if the permitting authority took no action on the request within 30 days, the exemption would be approved automatically.

Statement of Kenneth E. Blower, Manager of Environmental Affairs, The Standard Oil Company of Ohio, representing The American Petroleum Institute as Chairman, API Water Program Committee, on November 10, 1983, before the Committee on Public Works and Transportation, U.S. House of Representatives [As printed in Committee Print 98 - 33, Possible Amendments to the Federal Water Pollution Control Act, pp. 2491 - 2493, published by U.S. Government Printing Office, Washington, 1984].

API recommends that Section 402(b)(1)(B) of the Clean Water Act be amended to read as follows (changes are underscored):

"(B) except as provided under paragraph (C) of this subsection, are for fixed terms not exceeding ten years, unless a permit includes a waiver or modification of any otherwise applicable requirement pursuant to Sections 301(c), (g), (h) and (m) of this Act, in which case such permit shall be for a fixed term not exceeding five years;".

Where a facility is granted an economic or water quality based waiver under the act, the permit lifetime would still be limited to five years. However, other minor modifications would not prevent a facility from obtaining a ten year permit.

The amendment recommended by API would allow a 10-year permit term that corrects the problems encountered with the five-year term. The existing five-year maximum lifespan for NPDES permits has imposed unnecessary burdens and costs on industry, EPA and the states alike. It may take as long as a year for a final permit to be issued. Up to three years may be required to install treatment technology necessary to comply with permit conditions. This scenario leaves little time to obtain data on effluents before the permit has to be renewed.

It has been estimated that about 65,000 permits have been issued since 1972.¹ EPA and the states are now facing an increasing backlog of permits which have expired and must be re-issued. This problem could be alleviated in the future by amending the act to provide permit authorities the flexibility to issue permits for terms up to 10 years.

Moreover, the 10-year lifetime would make the NPDES permit program more consistent with permit programs enforcing other environmental laws. Congress has not placed restrictions on the duration of permit terms under the Resource Conservation and Recovery Act and the Clean Air Act.

B. Excluding Insignificant Discharges

S. 431's Section 13 recognizes the need to exempt from the NPDES permit program discharges that have little or no adverse impact on water quality. The provision exempts discharges of stormwater runoff from mining operations and oil or gas exploration, production, processing, or treatment operations that are not contaminated with process wastes, overburden, raw

¹ Deputy Administrator, Dr. John Hernandez, Jr., U.S. Environmental Protection Agency, Testimony before the Subcommittee on Environmental Pollution, Senate Committee on Environment and Public Works, February 5, 1982.

materials, toxic pollutants, hazardous substances in excess of reportable quantities, or oil or grease from the Clean Water Act's requirement to obtain an NPDES permit.

However, the proposed language fails to explain what constitutes "contaminated by oil or grease." API recommends that line 17 of Section 13 be changed to read "or oil or grease in excess of reportable quantities." This is the phrasing used to define "contamination by hazardous substances."

In addition to the specific exemption provided by Section 13 of S.431, Congress should consider amending the act to provide authority for EPA to exempt other environmentally insignificant discharges from the NPDES permit program. That is, EPA should be allowed (a) to exempt appropriate discharges from categories of point sources and (b) to exempt specific point source discharges on a case-by-case basis.

A Clean Water Act amendment excluding insignificant discharges from the NPDES permit program will help address a problem that EPA, state agencies and industry have all acknowledged. Thousands of insignificant discharges are currently regulated under the NPDES permit program. Faced with the enormous task of renewing permits for major point sources, permit issuing authorities probably will not be able to act on most minor discharge permit applications during the next several years.

During the first round of NPDES permit issuances under the Federal Water Pollution Control Act of 1972, EPA attempted to exclude many stormwater discharges containing insignificant quantities of pollutants from NPDES permit requirements. This exclusion was challenged by the Natural Resources Defense Council (NRDC) which claimed that EPA had no authority under the act to exclude any point source discharges of pollutants.² The court agreed with NRDC, and, as a result, EPA now believes that it has little or no discretion in its application of the permit program. Based on a survey of 39 states, the Association of State and Interstate Water Pollution Control Administrators in May 1979 reported that a total of 5,808 major and 36,090 minor NPDES discharge permits had been issued to both industrial and municipal dischargers. The report stated: "About 51 percent of all permits issued ... involved relatively insignificant facilities with respect to point source pollution concerns."³ In spite of EPA's efforts, thousands of permit applications (some submitted as long ago as 1972) for small sources are still pending.

² NRDC v. Train, 396 F.Supp 1393 (D.D.C. 1975), aff'd, NRDC v. Train, 569 F.2d 1369 (D.C. Cir. 1977).

By excluding insignificant discharges from NPDES permit requirements, both industry and government will be able to better focus on eliminating major sources of pollution from the nation's waters.

Statement of J. William Haun, Vice President, General Mills Corporation, as Chairman, Clean Water Project, National Environmental Development Association, on November 10, 1983, before the Committee on Public Works and Transportation, U.S. House of Representatives [As printed in Committee Print 98 - 33, Possible Amendments to the Federal Water Pollution Control Act, pp. 2546 - 2547, published by U.S. Government Printing Office, Washington, 1984].

De Minimis Exemptions

The majority of Clean Water Act permits are for minor discharges. Literally thousands of NPDES small-source discharge permit applications, some written as long ago as 1972, are awaiting action.

An illustration of the problem is an actual case where a company's drinking fountain, because of its location, drains its overflow into a water body. That drinking fountain requires an NPDES permit, and there is no provision allowing it to be exempted.

The EPA Administrator should be allowed to exempt de minimis point source discharges and channeled stormwater runoff containing de minimis quantities of pollutants from the NPDES permit procedure. Determination of eligibility for exemption should be based on concentration, volume and type of discharge.

The Senate Committee has, in part, recognized this point and has included in S.431 exemptions for channeled stormwater runoff which contains no pollutants for oil, gas, and mining industries. However, we see no reason to limit this exemption to certain industries or types of discharge. All discharges which contain little or no pollutants should be eligible for exemption.

WATER QUALITY RENEWAL ACT OF 1984

JUNE 6, 1984.—Committed to the Committee of the Whole House on the State of the Union and ordered to be printed

Mr. HOWARD, from the Committee on Public Works and Transportation, submitted the following

REPORT

together with

ADDITIONAL AND SUPPLEMENTAL VIEWS

[To accompany H.R. 3282]

[Including cost estimate of the Congressional Budget Office]

The Committee on Public Works and Transportation, to whom was referred the bill (H.R. 3282) to amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes, having considered the same, report favorably thereon with an amendment and recommend that the bill as amended do pass.

The amendment strikes out all after the enacting clause of the bill and inserts a new text which appears in italic type in the reported bill.

45

SECTION 35

This section directs the Administrator to study the feasibility and desirability of eliminating the regulation of discharges of pollutants into the navigable waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant. A report, with recommendations, is to be submitted to the House Committee on Public Works and Transportation and the Senate Committee on Environment and Public Works within one year of the date of enactment of H.R. 3282.

98TH CONGRESS }
2d Session

HOUSE OF REPRESENTATIVES

{ REPORT
98-838

PROVIDING FOR THE CONSIDERATION OF H.R. 3282

JUNE 13, 1984.—Referred to the House Calendar and ordered to be printed

3 STUDY OF REGULATION OF DE MINIMIS DISCHARGES

4 SEC. 35. The Administrator of the Environmental Pro-
5 tection Agency shall study the feasibility and desirability of
6 eliminating the regulation of discharges of pollutants into the
7 navigable waters in amounts which, in terms of volume, con-
8 centration, and type of pollutant, are not significant. The Ad-
9 ministrator shall submit a report of such study along with
10 recommendations to the Committee on Public Works and
11 Transportation of the House of Representatives and the
12 Committee on Environment and Public Works of the Senate
13 not later than one year after the date of enactment of this
14 Act.

HR 5903 IH

June 22, 1984

CONGRESSIONAL RECORD — HOUSE

H 6351

AMENDMENTS

Under clause 6 or rule XXIII, proposed amendments were submitted as follows:

H.R. 3282

By Mr. ROE:

Amendment in the nature of a substitute.
—Strike out all after the enacting clause and insert in lieu thereof the following:

SHORT TITLE

SECTION 1. This Act may be cited as the "Water Quality Renewal Act of 1984".

H 6360

CONGRESSIONAL RECORD — HOUSE

June 22, 1984

STUDY OF REGULATION OF DE MINIMIS
DISCHARGES

Sec. 35. The Administrator of the Environmental Protection Agency shall study the feasibility and desirability of eliminating the regulation of discharges of pollutants into the navigable waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant. The Administrator shall submit a report of such study along with recommendations to the Committee on Public Works and Transportation of the House of Representatives and the Committee on Environment and Public Works of the Senate not later than one year after the date of enactment of this Act.

Mr. ROE (during the reading). Mr. Chairman, I ask unanimous consent that the amendment in the nature of a substitute be considered as read and printed in the Record.

The CHAIRMAN. Is there objection to the request of the gentleman from New Jersey?

There was no objection.

(Mr. ROE asked and was given permission to revise and extend his remarks.)

(By unanimous consent, Mr. ROE was allowed to proceed for 5 additional minutes.)

Mr. HOWARD. Mr. Chairman, will the gentleman yield?

Mr. ROE. I yield to the gentleman from New Jersey.

Mr. HOWARD. I thank the gentleman for yielding.

Mr. Chairman, I just wish to take this time to congratulate the gentleman in the well, the gentleman from New Jersey [Mr. ROE], the gentleman from Minnesota [Mr. STANGELAND], the ranking minority member on the Subcommittee on Water Resources, all the members of the Public Works and Transportation Committee, and to a very great degree the majority and minority staffs of this subcommittee, which have worked so long and so hard to present this, the finest clean water bill ever presented to the Congress. I congratulate them on their work and effort, and I ask for the overwhelming support of our colleagues on this vital measure.

Mr. ROE. Mr. Chairman, I thank the gentleman from New Jersey [Mr. HOWARD] for his comments, and I, too, want to extend my appreciation to him and to the gentleman from Kentucky [Mr. SNYDER], the ranking minority member of the committee, and the gentleman from Minnesota [Mr. STANGELAND], the ranking minority member of the subcommittee, who is my counterpart on the Subcommittee on Water Resources. I also want to particularly single out the gentleman from Pennsylvania [Mr. EDGAR] amongst our other Members who have

done such a splendid job on this legislation, and particularly the staff for the outstanding job and the work that they have conducted on this most important Water Quality Renewal Act of 1984.

Mr. Chairman, this amendment is an amendment in the nature of a substitute to the bill, H.R. 3282, the Water Quality Renewal Act of 1984, which was reported by our committee on June 6, 1984. This amendment is designed to address a number of problems which arose after the bill was reported. The amendment was published in the CONGRESSIONAL RECORD for June 23 for the information of the Members. A detailed analysis of the amendment follows:

SECTION-BY-SECTION ANALYSIS

(AMENDMENT IN THE NATURE OF A SUBSTITUTE TO H.R. 3282 OFFERED BY MR. ROE)

SECTION 1

Section 1 provides that this Act may be cited as the Water Quality Renewal Act of 1984.

SECTION 35

This section directs the Administrator to study the feasibility and desirability of eliminating the regulation of discharges of pollutants into the navigable waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant. A report, with recommendations, is to be submitted to the House Committee on Public Works and Transportation and the Senate Committee on Environment and Public Works within one year of the date of enactment of H.R. 3282.

The question was taken; and the Speaker announced that the ayes appeared to have it.

Mr. FRENZEL. Mr. Speaker, I object to the vote on the ground that a quorum is not present and make the point of order that a quorum is not present.

The SPEAKER. Evidently a quorum is not present.

The Sergeant at Arms will notify absent Members.

The vote was taken by electronic device, and there were—yeas 405, nays 11, not voting 17, as follows:

(Roll No. 267)

YEAS—405

Ackerman	Davis	Haves
Addabbo	de la Garza	Heffner
Akaka	Dellums	Hefel
Albosta	Derrick	Hertel
Alexander	DeWine	Hightower
Anderson	Dickinson	Hier
Andrews (NC)	Dicks	Hillis
Andrews (TX)	Dingell	Holt
Annunzio	Donnelly	Hopkins
Anthony	Dorgan	Hortor
Applegate	Dowdy	Howard
Archer	Downey	Hoyer
Aspin	Dreier	Hubbard
Badham	Duncan	Hucksby
Barnard	Durbin	Hughes
Barnes	Dwyer	Hunter
Bateman	Dyson	Hutto
Bates	Early	Hyde
Beahm	Eckart	Ireland
Belmont	Edgar	Jacobs
Bennett	Edwards (AL)	Jeffords
Bereuter	Edwards (CA)	Jenkins
Berman	Edwards (OK)	Johnson
Bethune	English	Jones (NC)
Beverl	Erdreich	Jones (OK)
Biaggi	Evans (LA)	Jones (TN)
Bilirakis	Evans (IL)	Kaptur
Bliley	Fasell	Kasich
Boehner	Fazio	Kastenmeier
Boehs	Feighan	Kasich
Boiland	Ferraro	Kemp
Boner	Fiedler	Kenelly
Bonior	Fields	Kildee
Bonker	Fish	Kinross
Borah	Flyppo	Kluczka
Bono	Florio	Kolter
Boucher	Foglietta	Kostmayer
Boxer	Foley	Kramer
Bresax	Ford (MI)	LaFalce
Britt	Ford (TN)	Lagomarsino
Broomfield	Fowler	Lantos
Brown (CA)	Frank	Latta
Brown (CO)	Franklin	Leach
Broyhill	Frenzel	Leath
Bryant	Frost	Lehman (CA)
Burton (CA)	Fugua	Lehman (FL)
Byrnes	Garcia	Leino
Campbell	Gaydos	Lent
Carney	Gejdenson	Lewis
Carper	Oellas	Lewis
Carr	Gephardt	Livitas
Chandler	Gibbons	Lewis (FL)
Chappell	Gilman	Lipinski
Chapple	Gingrich	Livington
Clarke	Glickman	Lloyd
Clay	Gonshus	Loeffler
Clinger	Goodling	Long (LA)
Coats	Corr	Long (MD)
Coalbe	Gradison	Lott
Coleman (MO)	Grassm	Lowery (CA)
Coleman (TX)	Gray	Lowry (WA)
Collins	Green	Lujan
Conable	Grigg	Lujan
Conle	Quarini	Lundine
Conyers	Gunderson	Mack
Cooper	Hall (OH)	MacKay
Corcoran	Hall, Ralph	Madsen
Coughlin	Hall, Sam	Markey
Courter	Hamilton	Martinez
Coyne	Hammerschmidt	Martin (IL)
Craig	Hans	Martin (NC)
Crestani	Hansen (UT)	Martin (NY)
D'Ameuro	Harkin	Martinez
Daniel	Harrison	Matsui
Darden	Hartnett	Mavroules
Dassie	Hatcher	McCall
Dash	Havins	McCain

The CHAIRMAN pro tempore. The question is on the amendment in the nature of a substitute offered by the gentleman from New Jersey (Mr. ROE), as amended.

The amendment in the nature of a substitute, as amended, was agreed to.

The CHAIRMAN pro tempore. Under the rule, the Committee rises.

□ 1715

Accordingly, the Committee rose, and the Speaker having resumed the chair, Mr. KAZEN, Chairman pro tempore of the Committee of the Whole House on the State of the Union, reported that that Committee, having had under consideration the bill (H.R. 3282) to amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes, pursuant to House Resolution 522, he reported the bill back to the House with an amendment adopted by the Committee of the Whole.

The SPEAKER. Under the rule, the previous question is ordered.

Is a separate vote demanded on any amendment to the amendment in the nature of a substitute adopted by the Committee of the Whole? If not, the question is on the amendment.

The amendment was agreed to.

The SPEAKER. The question is on the engrossment and third reading of the bill.

The bill was ordered to be engrossed and read a third time, and was read the third time.

The SPEAKER. The question is on the passage of the bill.

McCandless	Purcell	Spratt
McCloskey	Quillen	St. Germain
McCullum	Rahall	Staggers
McCurdy	Rangel	Stangeland
McDade	Ratchford	Stark
McEwen	Ray	Stenholm
McHugh	Regula	Stokes
McKernan	Reid	Stratton
McNulty	Richardson	Studds
Mica	Ridge	Sundquist
Michel	Rinaldo	Swift
Mikulski	Ritter	Syrar
Miller (CA)	Roberts	Talton
Miller (OH)	Robinson	Tauke
Mineta	Rodino	Tauzin
Minsh	Roe	Taylor
Mitchell	Romer	Thomas (CA)
Mockley	Rogers	Thomas (GA)
Molinar	Rostenkowski	Torres
Molohan	Roth	Torricelli
Montgomery	Roukema	Towns
Moady	Rowland	Traxler
Moore	Roybal	Udall
Moorhead	Rudd	Valentine
Morrison (CT)	Russo	Vander Jagt
Morrison (WA)	Sabo	Vandergriff
Murphy	Savage	Vento
Murtha	Sawyer	Volkmer
Myers	Schaefer	Vucanovich
Natcher	Scheuer	Walgren
Neal	Schneider	Walker
Nelson	Schroeder	Wallace
Nichols	Schulze	Waxman
Nowak	Schumer	Weaver
O'Brien	Seiberling	Weber
Oaker	Sharp	Weiss
Oberstar	Shaw	Wheat
Obey	Shelby	Whitehurst
Olin	Shumway	Whitley
Ortiz	Shuster	Whitaker
Ottinger	Sikorski	Whitten
Owens	Siljander	Williams (MT)
Oxley	Simon	Williams (OH)
Packard	Sisk	Wilson
Paetola	Skeen	Winn
Parris	Skilton	Wirth
Pashayan	Slattery	Wise
Patman	Smith (FL)	Wolf
Patterson	Smith (LA)	Wolpe
Pease	Smith (NE)	Wright
Penny	Smith (NJ)	Wyden
Pepper	Smith, Denny	Wylie
Pertuis	Smith, Robert	Yates
Petri	Snowe	Yatron
Pickle	Snyder	Young (AK)
Porter	Solarz	Young (FL)
Priest	Solomon	Young (MO)
Pritchard	Spence	Zachau

NAYS—11

Bartlett	Crane, Philip	Nielson
Burton (IN)	Dannemeyer	Paul
Cheney	Lundgren	Stump
Crane, Daniel	Marlenee	

NOT VOTING—17

AuCota	Hall (IN)	Mrazek
Brooks	Hansen (ID)	Rose
Dixon	Kogovsek	Sensenbrenner
Dymally	Lewis (CA)	Shannon
Emerson	McGrath	Wortley
Erlenborn	McKinney	

□ 1730

So the bill was passed.

The result of the vote was announced as above recorded.

A motion to reconsider was laid on the table.

MESSAGES FROM THE HOUSE

At 11:16 a.m., a message from the House of Representatives, delivered by Mr. Berry, one of its reading clerks, announced that the House has passed the following bills, in which it requests the concurrence of the Senate:

H.R. 3222. An act to amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes; and

**MEASURES PLACED ON THE
CALENDAR**

The following bills were read the first and second times by unanimous consent, and placed on the calendar:

H.R. 3222. An act to amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes.

19 **STUDY OF REGULATION OF DE MINIMIS DISCHARGES**

20 **SEC. 36.** The Administrator of the Environmental Pro-
21 tection Agency shall study the feasibility and desirability of
22 eliminating the regulation of discharges of pollutants into the
23 navigable waters in amounts which, in terms of volume, con-
24 centration, and type of pollutant, are not significant. The Ad-
25 ministrator shall submit a report of such study along with
26 recommendations to the Committee on Public Works and

1 Transportation of the House of Representatives and the
2 Committee on Environment and Public Works of the Senate
3 not later than one year after the date of enactment of this
4 Act.

99TH CONGRESS
1ST SESSION

H. R. 1509

To amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MARCH 7, 1985

Mr. OBERSTAR (for himself, Mr. EDGAR, Mr. MOODY, and Mr. MINETA) introduced the following bill; which was referred to the Committee on Public Works and Transportation

A BILL

To amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 SHORT TITLE

4 SECTION 1. This Act may be cited as the "Water Qual-
5 ity Renewal Act of 1985".

19 **STUDY OF REGULATION OF DE MINIMIS DISCHARGES**

20 **SEC. 36. The Administrator of the Environmental Pro-**
21 **tection Agency shall study the feasibility and desirability of**
22 **eliminating the regulation of discharges of pollutants into the**
23 **navigable waters in amounts which, in terms of volume, con-**
24 **centration, and type of pollutant, are not significant. The Ad-**
25 **ministrator shall submit a report of such study along with**
26 **recommendations to the Committee on Public Works and**

● ■ 1599 ■

1 **Transportation of the House of Representatives and the**
2 **Committee on Environment and Public Works of the Senate**
3 **not later than one year after the date of enactment of this**
4 **Act.**

Testimony by J. Leonard Ledbetter, Commissioner, Department of Natural Resources, State of Georgia, appearing in his capacity as Vice President, Association of State and Interstate Water Pollution Control Administrators, on April 30, 1985, before the Subcommittee on Water Resources, Committee on Public Works and Transportation, U.S. House of Representatives [As printed in Committee Print 99 - 9, Possible Amendments to the Federal Water Pollution Control Act, p. 484, published by U.S. Government Printing Office, Washington, 1985].

IV. TITLE IV

Section 402 - (NPDES Permit Program)

This Section should be revised to allow partial assumption by States of the NPDES program pursuant to joint Federal/State agreements. In addition, it is essential that the Act be amended to provide for the issuance of NPDES permits up to ten years, provided flexibility is maintained to re-open a permit for good cause. The States support re-opening the permits to include promulgated effluent limitations or to address violation of water quality standards. In most States, seventy-five percent of the permits are for relatively small dischargers with non-toxic wastewaters and ten year permits would enable the States to spend more time developing and re-opening the permits for major sources.

Last year this House adopted similar legislation, H.R. 3232 by a sizable margin. Unfortunately the other body was unable to act on this legislation prior to adjournment and another year passed without Congress reauthorizing the Clean Water Act. H.R. 8 is, I believe, an even better bill and deserves our strong support. Accordingly, I urge my colleagues to support this measure inclusive of the committee amendments, so that we can continue our efforts to make our Nation's waters "swimmable and fishable" within the next 10 years.

The CHAIRMAN. The question is on the amendments offered by the gentleman from New Jersey [Mr. HOWARD].

The amendments were agreed to.

The CHAIRMAN. Pursuant to the rule, the substitute committee amendment recommended by the Committee on Public Works and Transportation now printed in the reported bill as modified by the amendments offered by the gentleman from New Jersey [Mr. HOWARD] shall be considered as an original bill for the purpose of amendment under the 5-minute rule by sections, and each section shall be considered as having been read. It shall also be in order to consider an amendment printed in the CONGRESSIONAL RECORD of July 16, 1985, by and if offered by Representative JONES of North Carolina, which shall be considered as having been read.

The Clerk will designate section 1.

The text of section 1 is as follows:

SECTION 1. SHORT TITLE; TABLE OF CONTENTS; AMENDMENTS TO FEDERAL WATER POLLUTION CONTROL ACT; DEFINITION OF ADMINISTRATOR.

(a) **SHORT TITLE.**—This Act may be cited as the "Water Quality Renewal Act of 1985".

(b) **TABLE OF CONTENTS.**—

- Sec. 1. Short title; table of contents; amendments to Federal Water Pollution Control Act; definition of Administrator.
- Sec. 2. Authorizations of appropriations.
- Sec. 3. Authorizations for construction grants.
- Sec. 4. Compliance deadlines.
- Sec. 5. Individual control strategies for toxic pollutants.
- Sec. 6. Policy for control of nonpoint sources of pollution.
- Sec. 7. Control of nonpoint sources of pollution.
- Sec. 8. Lake restoration guidance manual.
- Sec. 9. Small flows clearinghouses.
- Sec. 10. Eligible categories of projects.
- Sec. 11. Time limit on resolving certain disputes.
- Sec. 12. Federal share.
- Sec. 13. Agreement on eligible costs; grants certification of treatment process; turnkey contracts.
- Sec. 14. Grant conditions; user charges on low-income residential users.
- Sec. 15. Allotment of construction grant

- Sec. 16. Grants to States for establishment of water pollution control revolving funds.
- Sec. 17. Innovative technology compliance deadlines for direct discharges.
- Sec. 18. Variances from the application of effluent limitations.
- Sec. 19. Water quality criteria.
- Sec. 20. Test procedures.
- Sec. 21. Pretreatment standards.
- Sec. 22. Criminal penalties.
- Sec. 23. Civil penalties.
- Sec. 24. Administrative penalties.
- Sec. 25. Clean lakes.
- Sec. 26. NPDES permits.
- Sec. 27. Audits.
- Sec. 28. Commonwealth of the Northern Mariana Islands.
- Sec. 29. Agricultural stormwater discharges.
- Sec. 30. Reports to Congress.
- Sec. 31. Neenah Creek, New York.
- Sec. 32. San Diego, California.
- Sec. 33. Neoa, Arizona.
- Sec. 34. Limitation on discharge of raw sewage by New York City.
- Sec. 35. Deer Island treatment plant, Massachusetts.
- Sec. 36. Oakwood Beach and Red Hook projects, New York.
- Sec. 37. Chippewa Township, Pennsylvania.
- Sec. 38. Des Moines, Iowa.
- Sec. 39. Wastewater reclamation demonstration.
- Sec. 40. Boston Harbor and adjacent waters.
- Sec. 41. Treatment works in Washington State.
- Sec. 42. Improvement projects.
- Sec. 43. Study of regulation of de minimis discharges.
- Sec. 44. Study of effectiveness of innovative and alternative processes and techniques.
- Sec. 45. Water quality improvement study.
- Sec. 46. Study of testing procedures.
- Sec. 47. Study of pretreatment of toxic pollutants.
- Sec. 48. Sulfide corrosion study.
- Sec. 49. Pulp mill study.
- Sec. 50. Study of rain/fall induced infiltration into sewer systems.
- Sec. 51. Study of pH in discharges from mining operations.
- Sec. 52. Study of pollution in Lake Pend Oreille, Idaho.
- Sec. 53. Limitation on payments.

(c) **AMENDMENT OF FEDERAL WATER POLLUTION CONTROL ACT.**—Except as otherwise expressly provided, whenever in this Act an amendment or repeal is expressed in terms of an amendment to, or repeal of, a section or other provision, the reference shall be considered to be made to a section or other provision of the Federal Water Pollution Control Act.

(d) **DEFINITION.**—For purposes of this Act, the term "Administrator" means the Administrator of the Environmental Protection Agency.

Mr. HOWARD. Mr. Chairman, I ask unanimous consent that the remainder of the committee amendment in the nature of a substitute be printed in the Record and open to amendment at any point.

The CHAIRMAN. Is there objection to the request of the gentleman from New Jersey?

There was no objection.

The text of the remainder of the bill, beginning with section 2, is as follows:

H 6054

SEC. 42. STUDY OF REGULATION OF DE MINIMIS DISCHARGES.

(a) **STUDY.**—The Administrator shall study the feasibility and desirability of eliminating the regulation of discharges of pollutants into the navigable waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant.

(b) **REPORT.**—Not later than one year after the date of the enactment of this Act, the Administrator shall submit a report on the results of such study along with recommendations to the Committee on Public Works and Transportation of the House of Representatives and the Committee on Environment and Public Works of the Senate.

Excerpt from House Report 99 - 189, page 49, on The Water Quality Act of 1985, concerning the study of regulation of de minimis discharges.

SECTION 43—STUDY OF REGULATION OF DE MINIMUS DISCHARGES

This section directs the Administrator to study the feasibility and desirability of eliminating the regulation of discharges of pollutants into the navigable waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant. A report, with recommendations, is to be submitted to the House Committee on Public Works and Transportation and the Senate Committee on Environment and Public Works within one year of the date of enactment of H.R. 8.

The CHAIRMAN. The question is on the Committee amendment in the nature of a substitute, as amended.

The Committee amendment in the nature of a substitute, as amended, was agreed to.

The CHAIRMAN. Under the rule, the Committee rises.

Accordingly the Committee rose; and the Speaker having resumed the chair, Mr. RRM, Chairman of the Committee of the Whole House on the State of the Union, reported that that Committee, having had under consideration the bill (H.R. 8) to amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes, pursuant to House Resolution 222, he reported the bill back to the House with an amendment adopted by the Committee of the Whole.

The SPEAKER. Under the rule, the previous question is ordered.

Is a separate vote demanded on any amendment to the Committee amendment in the nature of a substitute adopted by the Committee of the Whole? If not, the question is on the amendment.

The amendment was agreed to.

The SPEAKER. The question is on the engrossment and third reading of the bill.

The bill was ordered to be engrossed and read a third time, and was read the third time.

MOTION TO RECOMMIT OFFERED BY MR. DELAY

Mr. DELAY. Mr. Speaker, I offer a motion to recommit.

The SPEAKER. Is the gentleman opposed to the bill?

Mr. DELAY. I am, Mr. Speaker, in its present form.

The SPEAKER. The Clerk will report the motion to recommit.

The Clerk read as follows:

Mr. DELAY moves to recommit the bill, H.R. 8, to the Committee on Public Works and Transportation.

The SPEAKER. Without objection, the previous question is ordered on the motion to recommit.

There was no objection.

The SPEAKER. The question is on the motion to recommit.

The motion to recommit was rejected.

The SPEAKER. The question is on the passage of the bill.

The question was taken; and the Speaker announced that the ayes appeared to have it.

RECORDED VOTE

Mr. LUNGREN. Mr. Speaker, I demand a recorded vote.

A recorded vote was ordered.

The vote was taken by electronic device, and there were—ayes 340, noes 83, not voting 10, as follows:

(Roll No. 250)

AYES—340

Acherman Addabbo Akaka

Alexander	Ford (TN)	Miller (CA)
Anderson	Fowler	Miller (OH)
Andrews	Frank	Minnick
Annunzio	Frost	Mitchell
Anthony	Fugate	Mockley
Applegate	Galle	Molinar
Aspin	Garcia	Mollohan
Atkins	Gaydos	Montgomery
AuCoin	Gejdenson	Moody
Badham	Oetka	Moore
Barnard	Oephardt	Moorhead
Barnes	Gibbons	Morrison (CT)
Bateman	Gillman	Mrazek
Bates	Gingrich	Murphy
Bedell	Gonzales	Myers
Bellinson	Gordon	Natcher
Bennett	Gradison	Neal
Bentley	Gray (IL)	Nelson
Berman	Gray (PA)	Nichols
Beverl	Green	Nowak
Biaggi	Quarini	O'Brien
Billey	Quanderon	Oskar
Boehert	Hall (OH)	Oberskar
Boggs	Hall, Ralph	Ober
Boland	Hamilton	Ortiz
Boner (TN)	Hammerichmidt	Owens
Booker	Haicher	Packard
Boraki	Hawkins	Panetta
Bosse	Hayes	Parris
Boucher	Hefel	Pashayan
Bozar	Hertel	Pease
Breaux	Hillis	Penny
Brooks	Holt	Pepper
Brown (CA)	Horton	Perkins
Bruce	Howard	Petri
Bryant	Hoyer	Pickle
Burton (CA)	Huckaby	Porter
Bustamante	Hughes	Price
Byron	Hutto	Quillen
Callahan	Hyde	Rahall
Campbell	Jacobs	Rangel
Carney	Jeffords	Ray
Carper	Jenkins	Regula
Carr	Johnson	Reid
Chappell	Jones (NC)	Richardson
Chapple	Jones (OK)	Ridge
Clay	Jones (TN)	Rinaldo
Clinger	Kanjorski	Robinson
Coele	Kaptur	Rodino
Coleman (MO)	Kastanmeier	Roe
Coleman (TX)	Kemp	Rogers
Collins	Kennedy	Rose
Conce	Kildee	Rostenkowski
Coeyers	Kloczka	Roth
Cooper	Kolter	Roukema
Coughlin	Kostmayer	Rowland (CT)
Courter	LaFalce	Rowland (GA)
Coyne	Leath (TX)	Roybal
Crockett	Lehman (CA)	Rudd
Daniel	Lehman (FL)	Russo
Darden	Leland	Sabo
Daschle	Lent	Savage
Davis	Levin (MI)	Saxton
de la Garza	Levine (CA)	Schaefer
Dellums	Lewis (CA)	Scheuer
Derrick	Lewis (FL)	Schroeder
Dickinson	Lightfoot	Schulze
Dicks	Lipinski	Schumer
Dingell	Livingston	Seiberling
DieGuardi	Lloyd	Sharp
Dixon	Long	Shaw
Donnelly	Lowery (CA)	Shelby
Dorgan (ND)	Lowry (WA)	Shuster
Dowdy	Lujan	Sikorski
Duncan	Lukas	Siskaly
Durbin	Lundine	Steen
Dwyer	MacKay	Stanton
Dymally	Madigan	Stattery
Dyson	Manton	Slaughter
Early	Markey	Smith (FL)
Eckart (OH)	Martin (IL)	Smith (LA)
Edgar	Martin (NY)	Smith (NJ)
Edwards (CA)	Martinez	Snowe
Emerson	Matoni	Snyder
English	Mavroules	Solarz
Erdreich	Masloff	Solomon
Evans (IA)	McCain	Spence
Evans (IL)	McCandless	Spratt
Fascoll	McCloskey	St Germain
Faste	McCollum	Staggers
Feighan	McCurdy	Stallins
Fiedler	McCade	Stangeland
Fields	McEwen	Stark
Fish	McGrath	Stokes
Flippo	McHugh	Stratton
Florio	McKernan	Studds
Foglietta	McKinney	Sundquist
Foley	Mica	Swift
Ford (MI)	Milwaukee	Syrac

Tallon	Vielosky	Wirth
Tauszn	Volkmcr	Wise
Taylor	Vucanovich	Wolf
Thomas (CA)	Walgren	Wolpe
Thomas (GA)	Watkins	Wortley
Torrea	Waxman	Wright
Torricelli	Weaver	Wyden
Towne	Weiss	Yates
Traficant	Wheat	Yatron
Traxler	Whitehurst	Young (AK)
Udall	Whitley	Young (FL)
Valentine	Whitten	Young (MO)
Vander Jagt	Williams	
Vento	Wilson	

The SPEAKER. Is there objection to the request of the gentleman from New Jersey?

There was no objection.
The Clerk read the Senate bill, as follows:

S. 1128

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That this Act may be cited as the "Clean Water Act Amendments of 1985".

NOES—83

Archer	Prenzel	Morrison (WA)
Armey	Goodling	Nielson
Bartlett	Gregg	Olin
Barton	Grobsberg	Oxley
Bereuter	Hahn	Pursell
Billrakis	Hartnett	Ritter
Boulter	Hendon	Roberts
Brown (CO)	Henry	Roemer
Broyhill	Hiler	Schuetz
Burton (IN)	Hopkins	Sensenbrenner
Chandler	Hunter	Shumway
Cheney	Ireland	Siljander
Coats	Kasich	Smith (NE)
Cobey	Kindness	Smith (NH)
Coble	Kolbe	Smith, Denny
Combest	Kramer	Smith, Robert
Craig	Lagomarsino	Stenholm
Crane	Latta	Strang
Dannemeyer	Leach (IA)	Stump
Daub	Loeffler	Sweeney
DeLay	Lott	Swindall
DeWine	Lungren	Tauke
Dornan (CA)	Mack	Walker
Dreier	Marienne	Weber
Eckert (NY)	McMillan	Whittaker
Edwards (OK)	Meyers	Wylie
Fawell	Michel	Zschau
Franklin	Miller (WA)	

NOT VOTING—10

Bonior (MI)	Hefner	Murtha
Broomfield	Hubbard	Schneider
Downey	Lantos	
Glickman	Monson	

□ 1730

Mr. HUNTER and Mr. ZSCHAU changed their votes from "aye" to "no."

Mr. LIVINGSTON changed his vote from "no" to "aye."

So the bill was passed.

The result of the vote was announced as above recorded.

A motion to reconsider was laid on the table.

AUTHORIZING THE CLERK TO MAKE CORRECTIONS IN ENGROSSMENT OF H.R. 8, WATER QUALITY RENEWAL ACT OF 1985

Mr. HOWARD. Mr. Speaker, I ask unanimous consent that, in the engrossment of the bill H.R. 8 the Clerk be authorized to correct section numbers, cross references, and the table of contents and make such other technical and conforming amendments as may be necessary to reflect the actions of the House in amending the bill H.R. 8.

The SPEAKER. Is there objection to the request of the gentleman from New Jersey?

There was no objection.

Mr. HOWARD. Mr. Speaker, I ask unanimous consent to take from the Speaker's table the Senate bill (S. 1128) to amend the Clean Water Act, and for other purposes, and ask for its immediate consideration in the House.

The Clerk read the title of the Senate bill.

MOTION OFFERED BY MR. HOWARD

Mr. HOWARD. Mr. Speaker, I offer a motion.

The Clerk read as follows:

Mr. HOWARD moves to strike out all after the enacting clause of the Senate bill, S. 1128, and to insert in lieu thereof the text of H.R. 8, as passed, as follows:

SECTION 1. SHORT TITLE; TABLE OF CONTENTS; AMENDMENTS TO FEDERAL WATER POLLUTION CONTROL ACT; DEFINITION OF ADMINISTRATOR.

(a) **SHORT TITLE.**—This Act may be cited as the "Water Quality Renewal Act of 1985".

(b) **TABLE OF CONTENTS.**—

- Sec. 1. Short title; table of contents; amendments to Federal Water Pollution Control Act; definition of Administrator.
- Sec. 2. Authorizations of appropriations.
- Sec. 3. Authorizations for construction grants.
- Sec. 4. Compliance deadlines.
- Sec. 5. Individual control strategies for toxic pollutants.
- Sec. 6. Policy for control of nonpoint sources of pollution.
- Sec. 7. Control of nonpoint sources of pollution.
- Sec. 8. Lake restoration guidance manual.
- Sec. 9. Small flows clearinghouse.
- Sec. 10. Eligible categories of projects.
- Sec. 11. Time limit on resolving certain disputes.
- Sec. 12. Federal share.
- Sec. 13. Agreement on eligible costs; grantee certification of treatment process; turnkey contracts.
- Sec. 14. Grant conditions; user charges on low-income residential users.
- Sec. 15. Allotment of construction grant funds.
- Sec. 16. Grants to States for establishment of water pollution control revolving funds.
- Sec. 17. Modification for nonconventional pollutants.
- Sec. 18. Discharges into marine waters.
- Sec. 19. Filing deadline for treatment works modification.
- Sec. 20. Application for ocean discharge modifications.
- Sec. 21. Innovative technology compliance deadlines for direct dischargers.
- Sec. 22. Variances from the application of effluent limitations.
- Sec. 23. Coal reining operations.
- Sec. 24. Water quality criteria.
- Sec. 25. Test procedures.
- Sec. 26. Pretreatment standards.
- Sec. 27. Inspection and entry.
- Sec. 28. Criminal penalties.
- Sec. 29. Civil penalties.
- Sec. 30. Administrative penalties.
- Sec. 31. Relationship to other laws.
- Sec. 32. Marine sanitation devices.
- Sec. 33. Clean lakes.
- Sec. 34. NPDES permits.
- Sec. 35. Audits.
- Sec. 36. Commonwealth of the Northern Mariana Islands.
- Sec. 37. Agricultural stormwater discharges.
- Sec. 38. Citizen suits.
- Sec. 39. Reports to Congress.
- Sec. 40. Indian tribes.
- Sec. 41. Definition of point source.
- Sec. 42. Chesapeake and Narragansett Bays.
- Sec. 43. New York and New Jersey harbor area.
- Sec. 44. San Francisco Bay.
- Sec. 45. Maintenance of water quality in estuaries.
- Sec. 46. Research on effects of pollutants.
- Sec. 47. Sewage sludge.
- Sec. 48. Puget Sound.
- Sec. 49. Ocean discharge research projects.
- Sec. 50. Grants for replacement of contaminated groundwater.
- Sec. 51. Unconsolidated quaternary aquifer.
- Sec. 52. Grants for protecting groundwater quality.
- Sec. 53. Demonstration program on acidified lakes.
- Sec. 54. Newtown Creek, New York.
- Sec. 55. San Diego, California.
- Sec. 56. Naco, Arizona.
- Sec. 57. Limitation on discharge of raw sewage by New York City.
- Sec. 58. Deer Island treatment plant, Massachusetts.
- Sec. 59. Great Lakes International Coordinating Office.
- Sec. 60. Oakwood Beach and Red Hook projects, New York.
- Sec. 61. Chippewa Township, Pennsylvania.
- Sec. 62. Des Moines, Iowa.
- Sec. 63. Wastewater reclamation demonstration.
- Sec. 64. Boston Harbor and adjacent waters.
- Sec. 65. Treatment works in Washington State.
- Sec. 66. Improvement projects.
- Sec. 67. Study of regulation of de minimis discharges.
- Sec. 68. Study of effectiveness of innovative and alternative processes and techniques.
- Sec. 69. Water quality improvement study.
- Sec. 70. Study of testing procedures.
- Sec. 71. Study of pretreatment of toxic pollutants.
- Sec. 72. Studies of water pollution problems in aquifers.
- Sec. 73. Great Lakes consumptive uses study.
- Sec. 74. Sulfide corrosion study.
- Sec. 75. Pulp mill study.
- Sec. 76. Study of rainfall induced infiltration into sewer systems.
- Sec. 77. Study of pH in discharges from mining operations.
- Sec. 78. Study of pollution in Lake Pend Oreille, Idaho.
- Sec. 79. Limitation on payments.
- Sec. 80. Rights and liabilities under other Federal statutes.

SEC. 67. STUDY OF REGULATION OF DE MINIMIS DISCHARGES.

(a) *STUDY.*—The Administrator shall study the feasibility and desirability of eliminating the regulation of discharges of pollutants into the navigable waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant.

(b) *REPORT.*—Not later than one year after the date of the enactment of this Act, the Administrator shall submit a report on the results of such study along with recommendations to the Committee on Public Works and Transportation of the House of Representatives and the Committee on Environment and Public Works of the Senate.

July 29, 1985

CONGRESSIONAL RECORD — SENATE

S 10259

**WATER QUALITY RENEWAL ACT
OF 1985**

Mr. SIMPSON. Mr. President, I ask the Chair to lay before the Senate a message from the House of Representatives on S. 1128.

The assistant legislative clerk laid before the Senate the amendment of the House of Representatives to the

S 10260

CONGRESSIONAL RECORD — SENATE

July 29, 1985

bill (S. 1128) to amend the Clean Water Act, and for other purposes.

(The amendment of the House is printed in the Record of July 23, 1985, beginning at page H6117.)

Mr. SIMPSON. Mr. President, I move that the Senate disagree to the House amendments and request a conference on the disagreeing votes thereon and the Chair be authorized to appoint conferees on the part of the Senate.

The motion was agreed to, and the Presiding Officer (Mr. HECHT) appointed Mr. STAFFORD, Mr. CHAFFE, Mr. SIMPSON, Mr. DURENBERGER, Mr. BREWSTER, Mr. MITCHELL, and Mr. MOYNIHAN conferees on the part of Senate.

APPOINTMENT OF CONFEREES
ON S. 1128, CLEAN WATER ACT
AMENDMENTS OF 1985

Mr. HOWARD. Mr. Speaker, I ask unanimous consent to take from the Speaker's table the Senate bill (S. 1128) to amend the Clean Water Act, and for other purposes, insist on the House amendments, and agree to the conference requested by the Senate.

The SPEAKER. Is there objection to the request of the gentleman from New Jersey? The Chair hears none, and appoints the following conferees: Messrs. ROX. ANDERSON, MINETA, OBERSTAR, EDGAR, TOWNS, SNYDER, HAMMER-SCHMIDT, STANGELAND, and CLINGER;

And additional conferees as follows:

Mr. NOWAK, solely for sections 59 and 73 of the House amendment and modifications committed to conference; and

Mr. ROWLAND of Georgia, solely for sections 5; 16(b)(1)(b); 16(b)(3)(a); 24(e)(7); 26(b)(3); and 51(a)(2) of the House amendment and modifications committed to conference.

REPORTS OF COMMITTEES ON
PUBLIC BILLS AND RESOLU-
TIONS

Under clause 2 of the rule XIII, reports of committees were delivered to the Clerk for printing and reference to the proper calendar, as follows:

Mr. HOWARD: Committee of Conference. Conference report on S. 1128 (Rept. 99-1004). Ordered to be printed.

U.S House of Representatives, Conference Report 99 - 1004, Amending the Clean Water Act, ordered to be printed October 15, 1986.

Action of the Conference (page 172)

STUDY OF REGULATION OF DE MINIMIS DISCHARGES

Senate bill

No comparable provision.

House amendment

The House amendment directs the Administrator to study the feasibility and desirability of eliminating the regulation of discharges of pollutants into the navigable waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant.

Conference substitute

The conference substitute adopts the House amendment with modifications to direct a study of discharges of pollutants to determine whether or not there are discharges in amounts which, in terms of volume, concentration, and type of pollutant, are not significant, and to determine the most effective and appropriate methods of regulating such discharges.

Final Wording (pages 83 & 84)

SEC. 516. STUDY OF DE MINIMIS DISCHARGES.

(a) *STUDY.*—The Administrator shall conduct a study of discharges of pollutants into the navigable waters and their regulation under the Federal Water Pollution Control Act to determine whether or not there are discharges of pollutants into such waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant and to determine the most effective and appropriate methods of regulating any such discharges.

(b) *REPORT.*—Not later than 1 year after the date of the enactment of this Act, the Administrator shall submit to the Committee on Public Works and Transportation of the House of Representatives and the Committee on Environment and Public Works of the Senate a report on the results of such study along with recommendations and findings concerning the most effective and appropriate methods of regulating any discharges of pollutants into the navigable waters in amounts which the Administrator determines under such study to be not significant.

S. 1128, Clean Water Act Amendments. Pocket Vetoed.

Calendar No. 1

100TH CONGRESS
1ST SESSION

S. 1

To amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes.

IN THE SENATE OF THE UNITED STATES

JANUARY 6, 1987

Mr. BYRD (for Mr. BURDICK) (for himself, Mr. CHAFEE, Mr. MITCHELL, Mr. STAFFORD, Mr. BYRD, Mr. MOYNIHAN, Mr. ADAMS, Mr. ARMSTRONG, Mr. BAUCUS, Mr. BENTSEN, Mr. BIDEN, Mr. BINGAMAN, Mr. BOBEN, Mr. BRADLEY, Mr. BUMPERS, Mr. CHILES, Mr. COHEN, Mr. CONRAD, Mr. CRANSTON, Mr. D'AMATO, Mr. DANFORTH, Mr. DASCHLE, Mr. DECONCINI, Mr. DIXON, Mr. DODD, Mr. DOMENICI, Mr. DURENBERGER, Mr. EVANS, Mr. EXON, Mr. FORD, Mr. FOWLER, Mr. GLENN, Mr. GOBE, Mr. GRAHAM, Mr. HARKIN, Mr. HEINZ, Mr. HOLLINGS, Mr. HUMPHREY, Mr. INOUE, Mr. KASTEN, Mr. KERRY, Mr. KENNEDY, Mr. LAUTENBERG, Mr. LEAHY, Mr. LEVIN, Mr. LUGAR, Mr. MCCONNELL, Mr. MELCHER, Mr. METZENBAUM, Ms. MIKULSKI, Mr. NUNN, Mr. PACKWOOD, Mr. PELL, Mr. PRESSLER, Mr. PROXMIRE, Mr. PEYOR, Mr. REID, Mr. RIEGLE, Mr. ROCKEFELLER, Mr. ROTH, Mr. RUDMAN, Mr. SANFORD, Mr. SARBANES, Mr. SASSEE, Mr. SIMON, Mr. SPECTER, Mr. SYMMS, Mr. THURMOND, Mr. TRIBLE, Mr. WARNER, Mr. WEICKER, Mr. WILSON, Mr. WIETH, and Mr. ZORINSKY) introduced the following bill; which was read twice and ordered to be placed on the calendar

A BILL

To amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
 2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS; AMEND-**
 4 **MENTS TO FEDERAL WATER POLLUTION CON-**
 5 **TROL ACT; DEFINITION OF ADMINISTRATOR.**

6 (a) **SHORT TITLE.**—This Act may be cited as the
 7 “Water Quality Act of 1987”.

8 (b) **TABLE OF CONTENTS.**—

- Sec. 1. Short title; table of contents; amendments to Federal Water Pollution Control Act; definition of Administrator.
 Sec. 2. Limitation on payments.

TITLE I—AMENDMENTS TO TITLE I

- Sec. 101. Authorizations of appropriations.
 Sec. 102. Small flows clearinghouse.
 Sec. 103. Chesapeake Bay.
 Sec. 104. Great Lakes.
 Sec. 105. Research on effects of pollutants.

TITLE II—CONSTRUCTION GRANTS AMENDMENTS

- Sec. 201. Time limit on resolving certain disputes.
 Sec. 202. Federal share.
 Sec. 203. Agreement on eligible costs.
 Sec. 204. Design/build projects.
 Sec. 205. Grant conditions; user charges on low-income residential users.
 Sec. 206. Allotment formula.
 Sec. 207. Rural set aside.
 Sec. 208. Innovative and alternative projects.
 Sec. 209. Regional organization funding.
 Sec. 210. Marine CSO's and estuaries.
 Sec. 211. Authorization for construction grants.
 Sec. 212. State water pollution control revolving funds.
 Sec. 213. Improvement projects.
 Sec. 214. Chicago tunnel and reservoir project.
 Sec. 215. Ad valorem tax dedication.

TITLE III—STANDARDS AND ENFORCEMENTS

- Sec. 301. Compliance dates.
 Sec. 302. Modification for nonconventional pollutants.
 Sec. 303. Discharges into marine waters.
 Sec. 304. Filing deadline for treatment works modification.
 Sec. 305. Innovative technology compliance deadlines for direct dischargers.
 Sec. 306. Fundamentally different factors.
 Sec. 307. Coal remaining operations.

- Sec. 308. Individual control strategies for toxic pollutants.
- Sec. 309. Pretreatment standards.
- Sec. 310. Inspection and entry.
- Sec. 311. Marine sanitation devices.
- Sec. 312. Criminal penalties.
- Sec. 313. Civil penalties.
- Sec. 314. Administrative penalties.
- Sec. 315. Clean lakes.
- Sec. 316. Management of nonpoint sources of pollution.
- Sec. 317. National estuary program.
- Sec. 318. Unconsolidated quaternary aquifer.

TITLE IV—PERMITS AND LICENSES

- Sec. 401. Stormwater runoff from oil, gas, and mining operations.
- Sec. 402. Additional pretreatment of conventional pollutants not required.
- Sec. 403. Partial NPDES program.
- Sec. 404. Anti-backsliding.
- Sec. 405. Municipal and industrial stormwater discharges.
- Sec. 406. Sewage sludge.
- Sec. 407. Log transfer facilities.

TITLE V—MISCELLANEOUS PROVISIONS

- Sec. 501. Audits.
- Sec. 502. Commonwealth of the Northern Mariana Islands.
- Sec. 503. Agricultural stormwater discharges.
- Sec. 504. Protection of interests of United States in citizen suits.
- Sec. 505. Judicial review and award of fees.
- Sec. 506. Indian tribes.
- Sec. 507. Definition of point source.
- Sec. 508. Special provisions regarding certain dumping sites.
- Sec. 509. Ocean discharge research project.
- Sec. 510. San Diego, California.
- Sec. 511. Limitation on discharge of raw sewage by New York City.
- Sec. 512. Oakwood Beach and Red Hook Projects, New York.
- Sec. 513. Boston Harbor and adjacent waters.
- Sec. 514. Wastewater reclamation demonstration.
- Sec. 515. Des Moines, Iowa.
- Sec. 516. Study of de minimis discharges.
- Sec. 517. Study of effectiveness of innovative and alternative processes and techniques.
- Sec. 518. Study of testing procedures.
- Sec. 519. Study of pretreatment of toxic pollutants.
- Sec. 520. Studies of water pollution problems in aquifers.
- Sec. 521. Great Lakes consumptive use study.
- Sec. 522. Sulfide corrosion study.
- Sec. 523. Study of rainfall induced infiltration into sewer systems.
- Sec. 524. Dam water quality study.
- Sec. 525. Study of pollution in Lake Pend Oreille, Idaho.

20 **SEC. 516. STUDY OF DE MINIMIS DISCHARGES.**

21 (a) **STUDY.**—The Administrator shall conduct a study of
 22 discharges of pollutants into the navigable waters and their
 23 regulation under the Federal Water Pollution Control Act to
 24 determine whether or not there are discharges of pollutants
 25 into such waters in amounts which, in terms of volume, con-

es 1 P3

1 centration, and type of pollutant, are not significant and to
 2 determine the most effective and appropriate methods of reg-
 3 ulating any such discharges.

4 (b) **REPORT.**—Not later than 1 year after the date of
 5 the enactment of this Act, the Administrator shall submit to
 6 the Committee on Public Works and Transportation of the
 7 House of Representatives and the Committee on Environ-
 8 ment and Public Works of the Senate a report on the results
 9 of such study along with recommendations and findings con-
 10 cerning the most effective and appropriate methods of regu-
 11 lating any discharges of pollutants into the navigable waters
 12 in amounts which the Administrator determines under such
 13 study to be not significant.

To amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JANUARY 6, 1987

Mr. HOWARD (for himself, Mr. HAMMERSCHMIDT, Mr. ROE, Mr. STANGELAND, Mr. NOWAK, Mr. ANDERSON, Mr. ANDREWS, Mr. APPELEGATE, Mr. ARCHER, Mr. ATKINS, Mr. BATEMAN, Mrs. BENTLEY, Mr. BEVILL, Mr. BLILEY, Mr. BOEHLERT, Mr. BORSKI, Mr. BOSCO, Mrs. BOXER, Mr. BROWN of California, Mr. BUSTAMANTE, Mr. CALLAHAN, Mr. CARDIN, Mr. CARPER, Mr. CHANDLER, Mr. CHAPMAN, Mr. CLARKE, Mr. CLINGER, Mr. COLEMAN of Texas, Mrs. COLLINS, Mr. COURTER, Mr. CROCKETT, Mr. DARDEN, Mr. DEFazio, Mr. DE LUGO, Mr. DICKS, Mr. DINGELL, Mr. DIOGUARDI, Mr. DORGAN of North Dakota, Mr. DOWNEY of New York, Mr. DURBIN, Mr. DWYER of New Jersey, Mr. DYSON, Mr. ECKART, Mr. EVANS, Mr. FASCELL, Mr. FAZIO, Mr. FEIGHAN, Mr. FIELDS, Mr. FISH, Mr. FLORIO, Mr. FUGLIETTA, Mr. FORD of Michigan, Mr. FRANK, Mr. GALLO, Mr. GEJDENSON, Mr. GILMAN, Mr. GONZALEZ, Mr. GOODLING, Mr. GRADISON, Mr. GRANT, Mr. GREEN, Mr. GUARINI, Mr. GUNDERSON, Mr. HAMILTON, Mr. HAYES of Louisiana, Mr. HENRY, Mr. HORTON, Mr. HOYER, Mr. HUGHES, Mrs. JOHNSON of Connecticut, Mr. JONTZ, Mr. KANJORSKI, Mr. KASTENMEIER, Mr. KILDEE, Mr. KLECZKA, Mr. LaFALCE, Mr. LANTOS, Mr. LEHMAN of Florida, Mr. LELAND, Mr. LEVIN of Michigan, Mr. LEWIS of Florida, Mr. LIGHTFOOT, Mr. LIPINSKI, Mr. LOWERY of California, Mr. THOMAS A. LUKEN, Mr. MACKAY, Mr. MANTON, Mrs. MARTIN of Illinois, Mr. MATSUI, Mr. MCCOLLUM, Mr. MCDADE, Mr. MCGRATH, Mr. MCHUGH, Mr. MCKINNEY, Mr. McMILLAN of North Carolina, Mr. MILLER of California, Mr. MINETA, Mr. MOLINARI, Mr. MOODY, Mr. MRAZEK, Mr. MURPHY, Mr. NATCHER, Mr. NEAL, Mr. NELSON of Florida, Ms. OAKAR, Mr. OBERSTAR, Mr. OLIN, Mr. OWENS of New York, Mr. PACKARD, Mr. PANETTA, Mr. PERKINS, Mr. RAHALL, Mr. RICHARDSON, Mr. RINALDO, Mr. RODINO, Mr. ROSE, Mr. ROSTENKOWSKI, Mrs. ROUKEMA, Mr. ROWLAND of Georgia, Mr. ROWLAND of Connecticut, Mr. RUSSO, Mr. SAVAGE, Mr. SAXTON, Mr. SCHEUER, Miss SCHNEIDER, Mr. SCHUETTE, Mr. SCHUMER, Ms. SLAUGHTER of New York, Mr. SENSENBRENNER, Mr. SHAW, Mr. SHUSTER, Mr. SIKORSKI, Mr. SKAGGS, Mr. SMITH of Iowa, Mr. SMITH of New Jersey, Mr. SOLOMON, Mr. ST GERMAIN, Mr. STALLINGS, Mr. STRATTON, Mr. STUDDS, Mr. SUNDQUIST, Mr. SUNIA, Mr. SWIFT, Mr. THOMAS of

- Sec. 512. Oakwood Beach and Red Hook Projects, New York.
- Sec. 513. Boston Harbor and adjacent waters.
- Sec. 514. Wastewater reclamation demonstration.
- Sec. 515. Des Moines, Iowa.
- Sec. 516. Study of de minimis discharges.
- Sec. 517. Study of effectiveness of innovative and alternative processes and techniques.
- Sec. 518. Study of testing procedures.
- Sec. 519. Study of pretreatment of toxic pollutants.
- Sec. 520. Studies of water pollution problems in aquifers.
- Sec. 521. Great Lakes consumptive use study.
- Sec. 522. Sulfide corrosion study.
- Sec. 523. Study of rainfall induced infiltration into sewer systems.
- Sec. 524. Dam water quality study.
- Sec. 525. Study of pollution in Lake Pend Oreille, Idaho.

20 **SEC. 516. STUDY OF DE MINIMIS DISCHARGES.**

21 (a) **STUDY.**—The Administrator shall conduct a study of
 22 discharges of pollutants into the navigable waters and their
 23 regulation under the Federal Water Pollution Control Act to
 24 determine whether or not there are discharges of pollutants
 25 into such waters in amounts which, in terms of volume, con-

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1 centration, and type of pollutant, are not significant and to
2 determine the most effective and appropriate methods of reg-
3 ulating any such discharges.

4 (b) REPORT.—Not later than 1 year after the date of
5 the enactment of this Act, the Administrator shall submit to
6 the Committee on Public Works and Transportation of the
7 House of Representatives and the Committee on Environ-
8 ment and Public Works of the Senate a report on the results
9 of such study along with recommendations and findings con-
10 cerning the most effective and appropriate methods of regu-
11 lating any discharges of pollutants into the navigable waters
12 in amounts which the Administrator determines under such
13 study to be not significant.

Mr. **HAMMERSCHMIDT.**

The new language will properly reduce the universe of permits required for storm water from millions to thousands without reducing the protection of the environment. We established a mechanism that will require permits only where necessary—rather than in every instance. Without these changes, local, State, and Federal officials would be inundated with an enormous permitting workload even though most of the discharges would not have significant environmental impacts.

Mr. STANGELAND. Mr. Speaker, I rise to address provisions in H.R. 1, the Water Quality Act of 1987. This

legislation is the result of conference discussions in the 99th Congress spanning over 6 months and work, by House and Senate committees spanning over 4 years. Weeks of hearings, thousands of pages of testimony, and countless hours of analysis, discussion and debate led to development of this vitally important environmental legislation.

H.R. 1 should look strikingly familiar to each of us. This legislation—like its counterpart S. 1—is virtually identical to the conference report on S. 1128, which passed the House and Senate unanimously—by combined votes of 504 to 0—less than 3 months ago but was pocket vetoed by the President on November 6. As a matter of fact, H.R. 1 is the same as S. 1128 except for a few purely technical changes, such as replacing 1986 with 1987 in the act's name to reflect the new year.

I should also point out that despite its immediate consideration in the 100th Congress, H.R. 1 has a complete legislative history in the form of documents from the 99th Congress. To determine congressional intent in H.R. 1, one should first consult the conference report on S. 1128 and then, if necessary, committee reports and floor statements for the 99th Congress' House- and Senate-passed bills (H.R. 8 and S. 1128). These documents, particularly S. 1128's conference report, provide a detailed legislative history for H.R. 1 even though the new legislation introduced just 2 days ago has no committee report, conference report, or statement of managers from the 100th Congress.

AMENDMENTS SUBMITTED

WATER QUALITY ACT

DOLE AMENDMENT NO. 1

Mr. DOLE proposed an amendment to the bill (H.R. 1) to amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters, and for other purposes; as follows:

Strike out all after the enacting clause and insert in lieu thereof the following:

TABLE OF CONTENTS

(a) SHORT TITLE.—This Act may be cited as the "Water Quality Act of 1987".

(b) TABLE OF CONTENTS.—

Sec. 1. Short title; table of contents; amendments to Federal Water Pollution Control Act; definition of Administrator.

Sec. 2. Limitation on payments.

TITLE I—AMENDMENTS TO TITLE I

Sec. 101. Authorizations of appropriations.

Sec. 102. Chesapeake Bay.

Sec. 103. Great Lakes.

Sec. 104. Research on effects of pollutants.

TITLE II—CONSTRUCTION GRANTS AMENDMENTS

Sec. 201. Eligibilities, CSOs, Dispute Resolution, Limitations.

Sec. 202. Federal share.

Sec. 203. Agreement on eligible costs.

Sec. 204. Design/build projects.

Sec. 205. Grant conditions; user charges on low-income residential users.

Sec. 206. Allotment formula.

Sec. 207. Rural set aside, Innovative and alternative projects, and Non-point source programs.

Sec. 208. Regional organization funding.

Sec. 209. Authorization for construction grants.

Sec. 210. Grants to States for making water pollution control loans.

Sec. 211. Ad valorem tax dedication.

Sec. 212. Improvement Projects.

Sec. 213. Chicago Tunnel and Reservoir Project.

TITLE III—STANDARDS AND ENFORCEMENTS

Sec. 301. Compliance dates.

Sec. 302. Modification for nonconventional pollutants.

Sec. 303. Discharges into marine waters.

Sec. 304. Filing deadline for treatment works modification.

Sec. 305. Innovative technology compliance deadlines for direct dischargers.

Sec. 306. Fundamentally different factors.

Sec. 307. Coal remaining operations.

Sec. 308. Individual control strategies for toxic pollutants.

Sec. 309. Pretreatment standards.

Sec. 310. Inspection and entry.

Sec. 311. Marine sanitation devices.

Sec. 312. Criminal penalties.

Sec. 313. Civil penalties.

Sec. 314. Administrative penalties.

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Sec. 316. Management of nonpoint sources of pollution.

Sec. 317. National estuary program.

Sec. 318. Unconsolidated quaternary aquifer.

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Sec. 402. Additional pretreatment of conventional pollutants not required.

Sec. 403. Partial NPDES program.

Sec. 404. Anti-backsliding.

Sec. 405. Municipal and industrial stormwater discharges.

Sec. 406. Sewage sludge.

Sec. 407. Log transfer facilities.

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Sec. 501. Audits.

Sec. 502. Commonwealth of the Northern Mariana Islands.

Sec. 503. Agricultural stormwater discharges.

Sec. 504. Protection of interests of United States in citizen suits.

Sec. 505. Judicial review and award of fees.

Sec. 506. Indian tribes.

Sec. 507. Definition of point source.

Sec. 508. Special provisions regarding certain dumping sites.

Sec. 509. Ocean discharge research project.

Sec. 510. Limitation on discharge of raw sewage by New York City.

Sec. 511. Study of de minimis discharges.

Sec. 512. Study of effectiveness of innovative and alternative processes and techniques.

Sec. 513. Study of testing procedures.

Sec. 514. Study of pretreatment of toxic pollutants.

Sec. 515. Studies of water pollution problems in aquifers.

Sec. 516. Great Lakes consumptive use study.

Sec. 517. Sulfide corrosion study.

Sec. 518. Study of rainfall induced infiltration into sewer systems.

Sec. 519. Dam water quality study.

Sec. 520. Study of pollution in Lake Pend Oreille, Idaho.

Sec. 521. San Diego, California.

Sec. 522. Oakwood Beach and Red Hook Projects, New York.

Sec. 523. Boston Harbor and Adjacent Waters.

Sec. 524. Wastewater Reclamation Demonstration.

Sec. 525. Des Moines, Iowa.

Sec. 526. Study of De Minimis Discharges.

Sec. 527. Amendment to the Water Resources Development Act.

SEC. 511. STUDY OF DE MINIMIS DISCHARGES.

(a) **STUDY.**—The Administrator shall conduct a study of discharges of pollutants into the navigable waters and their regulation under the Federal Water Pollution Control Act to determine whether or not there are discharges of pollutants into such waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant and to determine the most effective and appropriate methods of regulating any such discharges.

(b) **REPORT.**—Not later than 1 year after the date of the enactment of this Act, the Administrator shall submit to the Committee on Public Works and Transportation of the House of Representatives and the Committee on Environment and Public Works of the Senate a report on the results of such study along with recommendations and findings concerning the most effective and appropriate methods of regulating any discharges of pollutants into the navigable waters in amounts which the Administrator determines under such study to be not significant.

SEC. 511. STUDY OF DE MINIMIS DISCHARGES.

(a) **STUDY.**—The Administrator shall conduct a study of discharges of pollutants into the navigable waters and their regulation under the Federal Pollution Control Act to determine whether or not there are discharges of pollutants into such waters in amounts which, in terms of volume, concentration, and type of pollutant, are not significant and to determine the most effective and appropriate methods of regulating any such discharges.

(b) **REPORT.**—Not later than 1 year after the date of the enactment of this Act, the Administrator shall submit to the Committee on Public Works and Transportation of the House of Representatives and the Committee on Environment and Public Works of the Senate a report on the results of such study along with recommendations and findings concerning the most effective and appropriate methods of regulating any discharges of pollutants into the navigable waters in amounts which the Administrator determines under such study to be not significant.

January 21, 1987

CONGRESSIONAL RECORD — SENATE

S 1003

WATER QUALITY ACT OF 1987

The **PRESIDING OFFICER**. Under the previous order, the hour of 2 p.m. having arrived, the Senate will now resume consideration of the unfinished business, H.R. 1, which the clerk will now report.

The assistant legislative clerk read as follows:

A bill (H.R. 1) to amend the Federal Water Pollution Control Act to provide for the renewal of the quality of the Nation's waters and for other purposes.

The Senate resumed consideration of the bill.

AMENDMENT NO. 1

The **PRESIDING OFFICER**. The pending question is on amendment No. 1 on which there shall be 2 hours of debate to be equally divided, controlled by the majority and minority leaders or their designees.

Mr. MITCHELL. Mr. President, I move to reconsider the vote by which the amendment was rejected.

Mr. BURDICK. Mr. President, I move to lay that motion on the table.

The motion to lay on the table was agreed to.

The PRESIDING OFFICER. The question is on the third reading of the bill.

The bill was ordered to a third reading and was read the third time.

The PRESIDING OFFICER. Under the previous order, the Senate will now have a rollcall vote on adoption of H.R. 1.

The bill having been read the third time, the question is, Shall the bill pass?

The yeas and nays have been ordered, and the clerk will call the roll.

The bill clerk called the roll.

Mr. SIMPSON announced that the Senator from Missouri (Mr. Bond) is absent due to illness.

I further announce that, if present and voting, the Senator from Missouri (Mr. Bond) would vote "yea."

The PRESIDING OFFICER. Are there any other Senators in the Chamber desiring to vote?

The result was announced—yeas 93, nays 6, as follows:

(Rollcall Vote No. 4 Leg.)

YEAS—93

Adams	Garn	Moynihan
Baucus	Glenn	Murkowski
Bentsen	Gore	Nunn
Biden	Graham	Packwood
Bingaman	Grassley	Pell
Boren	Harkin	Premier
Boehwits	Hatch	Proxmire
Bradley	Hatfield	Pryor
Breaux	Hecht	Quayle
Bumpers	Heflin	Reid
Burdick	Helms	Riegle
Byrd	Hollings	Rockefeller
Chafee	Humphrey	Roth
Chiles	Inouye	Rudman
Cochran	Johnston	Sanford
Cohen	Kassebaum	Sarbanes
Conrad	Kasten	Sasser
Cranston	Kennedy	Shelby
D'Amato	Kerry	Simon
Danforth	Lautenberg	Simpson
Daschle	Leahy	Specter
DeConcini	Levin	Stafford
Dixon	Lugar	Stennis
Dodd	Matsumaga	Stevens
Domenici	McCain	Thurmond
Durenberger	McClure	Tribble
Evans	McConnell	Warner
Ford	Melcher	Weicker
Fowler	Metzenbaum	Wilson
	Mikulski	Wirth
	Mitchell	Zorinsky

NAYS—6

Armstrong	Helms	Symms
Gramm	Nickles	Wallop

NOT VOTING—1

Bond

So the bill (H.R. 1) was passed.

Mr. MITCHELL. Mr. President, I move to reconsider the vote by which the bill was passed.

Mr. BURDICK. I move to lay that motion on the table.

The motion to lay on the table was agreed to.

The PRESIDING OFFICER. Under the previous order, the hour of 4 o'clock having arrived, the Senate will now vote on amendment No. 1. The clerk will call the roll.

The assistant legislative clerk called the roll.

Mr. SIMPSON. I announce that the Senator from Missouri (Mr. Bond) is absent due to illness.

The PRESIDING OFFICER (Mr. BREAUX). Are there any other Senators in the Chamber who desire to vote?

The result was announced—yeas 17, nays 82, as follows:

(Rollcall Vote No. 3 Leg.)

YEAS—17

Armstrong	Hatch	Nickles
Cochran	Hecht	Simpson
Dole	Heflin	Symms
Exon	Helms	Thurmond
Garn	Kassebaum	Wallop
Gramm	McClure	

NAYS—82

Adams	Glenn	Packwood
Baucus	Gore	Pell
Bentsen	Graham	Premier
Biden	Grassley	Proxmire
Bingaman	Harkin	Pryor
Boren	Hatch	Quayle
Boehwits	Hatfield	Reid
Bradley	Heins	Riegle
Breaux	Hollings	Rockefeller
Bumpers	Humphrey	Roth
Burdick	Inouye	Rudman
Byrd	Johnston	Sanford
Chafee	Kasten	Sarbanes
Chiles	Kennedy	Sasser
Cohen	Kerry	Shelby
Cranston	Lautenberg	Simon
D'Amato	Leahy	Specter
Danforth	Levin	Stafford
Daschle	Lugar	Stennis
DeConcini	Matsumaga	Stevens
Dixon	McCain	Tribble
Dodd	McConnell	Warner
Domenici	Melcher	Weicker
Durenberger	Metzenbaum	Wilson
Evans	Mikulski	Wirth
Ford	Mitchell	Zorinsky
Fowler	Moynihan	
	Murkowski	
	Nunn	

NOT VOTING—1

Bond

So the amendment (No. 1) was rejected.

hazards as Alcyon Lake, next to Lipari landfill, the No. 1 site on the Superfund national priority list in Pitman, N.J. I know how strongly the residents of Pitman feel about being able to once again fish and swim in this lake and I know that this is a feeling shared by many communities across the Nation.

In sum, Mr. Speaker, enactment of the Clean Water Act reauthorization is something we, as a Congress, owe not only to our constituents but also to future generations. We owe it to our children and our grandchildren to ensure that the legacy we leave them is one that will include our best efforts to preserve our natural resources and prevent future degradation of our environment. I urge my colleagues to join in maintaining our commitment to a clean and safe environment and enacting H.R. 1.

□ 1335

Mr. **HAMMERSCHMIDT**. Mr. Speaker, I do not have any further requests for time, but before I yield back the balance of my time, I yield myself such time as I may consume so that I may say this:

I want to express my appreciation for the leadership given on this legislation for the past 6 years, and even before that, by the chairman of the subcommittee, the gentleman from New Jersey, Mr. **BOS ROG**, and his counterpart, the gentleman from Minnesota, Mr. **ARLAN STANGELAND**. I served at one time with the gentleman from New Jersey as ranking member on the Water Resources Subcommittee, and I know the prodigious work he did.

I also wish to thank and congratulate the gentleman from New York (Mr. **NOWAK**) who will be assuming the responsibilities as chairman of the subcommittee.

Also, Mr. Speaker, certainly I wish to express my appreciation to the chairman of the full committee, the gentleman from New Jersey, Mr. **JIM HOWARD**, for his leadership and his cooperation, and I also express my appreciation to the very professional committee staffs. Their help and their cooperation have brought us to this point.

Mr. **HOWARD**. Mr. Speaker, before I yield back the balance of my time, I yield myself such time as I may consume.

Mr. Speaker, I wish to thank my colleagues, all the members of the Committee on Public Works and Transportation, as well as our counterparts over in the other body.

I especially thank the gentleman from New Jersey (Mr. **ROG**) and our new subcommittee chairman of the Subcommittee on Water Resources, the gentleman from New York (Mr. **NOWAK**). I appreciate the efforts of our ranking minority member, the gentleman from Minnesota (Mr. **STANGELAND**), and I thank all the Members for the work they have done on this vitally important issue.

In just a matter of weeks this marks really our third time around on this vital legislation. We were victorious in

the Congress the first two times. Usually if you win the third time, you get to retire the trophy.

We are not looking for any trophies here, Mr. Speaker. What we are looking for is a mandate by this Congress for clean water for our children and our grandchildren. We can do that by voting yes on this vote to override the President's veto.

Mr. Speaker, I yield back the balance of my time, and I move the previous question.

The previous question was ordered.

The **SPEAKER** pro tempore (Mr. **KILDEE**). The question is, Will the House, on reconsideration, pass the bill, the objections of the President to the contrary notwithstanding?

Under the Constitution, this vote must be determined by the yeas and nays.

The vote was taken by electronic device, and there were—yeas 401, nays 26, not voting 6, as follows:

(Roll No. 14)

YEAS—401

Ackerman	Congers	Gingrich
Alaska	Cooper	Glickman
Alexander	Coughlin	Gonzales
Anderson	Courter	Goodling
Andrews	Coyne	Gordon
Anthony	Craig	Grassano
Applegate	Crockett	Grandy
Archer	Daniel	Grant
Armey	Darden	Gray (IL)
Aspin	Daub	Gray (PA)
Atkins	Davis (IL)	Green
AuCoin	Davis (MI)	Gress
Baker	de la Garza	Guarini
Ballenger	DeFazio	Gunderson
Barnard	Dellums	Hall (OH)
Bateman	Derrick	Hall (TX)
Bates	DeWine	Hamilton
Beilenson	Dicks	Hammerschmidt
Bennett	Dingell	Hansen
Bentley	DioGuardi	Harris
Bereuter	Dixon	Hastert
Berman	Donnelly	Hatcher
Bevill	Dorgan (ND)	Hawkins
Biaggi	Dowdy	Hayes (IL)
Bilbray	Downey	Hayes (LA)
Bilirakis	Drner	Hefley
Bliley	Duncan	Hefner
Boehert	Durbin	Henry
Boege	Dwyer	Hertz
Boland	Dymally	Hiler
Boner (TN)	Dyson	Rochbrueckner
Bonior (MI)	Early	Holloway
Bonker	Eckart	Hopkins
Borah	Edwards (CA)	Horton
Bosco	Edwards (OK)	Houghton
Boucher	Emerson	Howard
Boulter	English	Hoyer
Boxer	Erdreich	Hubbard
Brennan	Espy	Huckaby
Brooks	Evans	Hughes
Brown (CA)	Faucell	Hunter
Brown (CO)	Fawell	Hutto
Bruce	Fazio	Ireland
Bryant	Feighan	Jacobs
Bunning	Fields	Jeffords
Bustamante	Fish	Jenkins
Byron	Flake	Johnson (CT)
Callahan	Flippo	Johnson (SD)
Campbell	Florie	Jones (NC)
Cardin	Foglietta	Jones (TN)
Casper	Foley	Jontz
Carr	Ford (MI)	Kanjorski
Chandler	Ford (TN)	Kaptur
Chapman	Frank	Kasich
Chappell	Frenzel	Kastenmeier
Clarke	Frost	Kennedy
Clay	Gallagher	Kennelly
Coats	Gallo	Kildee
Coche	Carcia	Klecka
Coelho	Caydas	Kolbe
Coleman (MO)	Cedeno	Koltz
Coleman (TX)	Celma	Koussis
Collins	Gibbons	Kuciniger
Corts	Gillman	Kyi

Mr. **FLORIO**. Mr. Speaker, I rise in support of efforts to override the Presidential veto of H.R. 1, the Clean Water Act reauthorization, and improve the water quality of our Nation's rivers, streams, and lakes. For the second time in a matter of weeks, Congress again has the opportunity to reaffirm the message that was sent to the President on two occasions. The health of our citizens and our natural resources and the future of our Nation's development will be severely threatened if we do not take steps to clean up our Nation's water supplies.

The lack of a clean water reauthorization endangers not only the economic health of our Nation but also the sanctity of our natural resources. H.R. 1 provides our municipalities with an environmentally responsive and fiscally responsible combination of grants and loans that would allow them to comply with the law and construct sewage treatment facilities. It provides our municipalities with the means to meet the mandate and ensure that our communities can continue to develop.

Without this vital combination of \$18 billion in grants and loans, our communities will find their economic growth stunted. Without the mandated improvements in our sewer systems, economic development and expansion, with the creation of new jobs, would be halted. The \$99 million per year in grants and loans that is slated for my own State of New Jersey through 1992 would guarantee that the sewage systems will be able to sustain higher development without jeopardizing the quality of our environment. Without this money, each of my constituents could be billed \$1 for every \$1 million lost in Federal funds because these improvements need to be made.

Mr. Speaker, when the President vetoed this legislation last week, he accused the bill of busting the budget. I would like to direct the attention of my colleagues to the fact that H.R. 1 takes into consideration the fiscal constraint we are facing and phases out the grant program and replaces it with a revolving loan fund. However, all this would be accomplished in such a way as to not interrupt this necessary program.

This legislation provides our Nation with not only the funds to improve our water quality but also with the guidance to decrease pollution on our shores, in our rivers and streams and lakes. In New Jersey, where tourism is one of the key industries, there have been many occasions when our beaches had to close during the summer because of the dangerous and often toxic pollution washing up on the shore. This legislation would alleviate the pollution by prohibiting ocean dumping 12 miles off the New York-New Jersey coast.

In addition, H.R. 1 not only restricts non-point pollution but also creates a clean lakes program that will clean up such environmental

LaFalce	Olin	Smith (FL)
Lagomastro	Ortiz	Smith (IA)
Lancaster	Owens (NY)	Smith (NE)
Lantos	Owens (UT)	Smith (NJ)
Leach (IA)	Oxley	Smith (TX)
Leath (TX)	Packard	Smith, Denny
Lehman (CA)	Panetta	(OR)
Lehman (FL)	Farris	Smith, Robert
Leland	Pashayan	(NH)
Lent	Patterson	Smith, Robert
Levin (MI)	Pease	(OR)
Levine (CA)	Penny	Snowe
Lewis (FL)	Pepper	Solara
Lewis (GA)	Pertuis	Solomon
Lightfoot	Petri	Spence
Lipinski	Pickett	Spratt
Livingston	Pickle	St Germain
Lloyd	Porter	Stagers
Lowery (CA)	Price (IL)	Stallins
Lowry (WA)	Price (NC)	Stangeland
Lujan	Pursell	Stark
Luken, Thomas	Quillen	Stenholm
Mack	Rahall	Stokes
MacKay	Rangel	Stratton
Manton	Ravenel	Studds
Markey	Ray	Sundquist
Martin (IL)	Regula	Sweeney
Martin (NY)	Rhodes	Swift
Martinez	Richardson	Swindall
Matsui	Ridge	Synar
Mavroules	Rinaldo	Talton
Masoli	Ritter	Tauke
McCandless	Roberts	Tauzin
McCloskey	Robinson	Taylor
McCollum	Rodino	Thomas (CA)
McCurdy	Roe	Thomas (GA)
McEwen	Roemer	Torres
McGrath	Rogers	Tornelli
McHugh	Rose	Towns
McKinney	Rostenkowski	Trajant
McMillan (NC)	Roth	Traxler
McMillen (MD)	Roukema	Udall
Meyers	Rowland (CT)	Upton
Mfume	Rowland (GA)	Valentine
Mica	Roybal	Vento
Miller (CA)	Russo	Viclocky
Miller (WA)	Sabo	Volkmer
Mineta	Saiki	Vucanovich
Moakley	Savage	Walgren
Molinar	Sawyer	Walker
Mollohan	Saxton	Watkins
Montgomery	Schaefer	Waxman
Moody	Scheuer	Weber
Moorhead	Schneider	Weiss
Morella	Schroeder	Weldon
Morrison (CT)	Schuette	Wheat
Morrison (WA)	Schulze	Whittaker
Mrazek	Schumer	Whitten
Murphy	Sensenbrenner	Williams
Murtha	Sharp	Wilson
Myers	Shaw	Wise
Nagle	Shumway	Wolf
Natcher	Shuster	Wolpe
Neal	Sikorski	Wortley
Nelson	Slatsky	Wyden
Nichols	Slaggs	Wylie
Nielson	Steen	Yates
Nowak	Skelton	Yatron
Oaker	Slattery	Young (AK)
Oberstar	Slaughter (NY)	Young (FL)
Ober	Slaughter (VA)	

NAYS—28

Radham	Dannemeyer	Lott
Bartlett	DeLay	Lukens, Donald
Barton	Dornan (CA)	Lungren
Broomfield	Harrer	Madigan
Buechner	Hyde	Martinez
Burton	Inhofe	Michel
Cheney	Kemp	Stump
Combest	Latta	Vander Jagt
Crane	Lewis (CA)	

NOT VOTING—6

Annumis	Dickinson	McDade
Clinger	Gephardt	Miller (OR)

□ 1355

Mr. LIPINSKI and Mr. HEFLEY changed their votes from "nay" to "yea."

So, two-thirds having voted in favor thereof, the bill was passed, the objections of the President to the contrary notwithstanding.

The result of the vote was announced as above recorded.
The SPEAKER. The Clerk will notify the Senate of the action of the House.

**WATER QUALITY ACT OF 1987—
VETO**

The **PRESIDING OFFICER**. Under the previous order, the hour of 2 p.m. having arrived, the Senate will now proceed to the consideration of the President's veto message on H.R. 1, which the clerk will report.

The bill clerk read as follows:

Veto message on H.R. 1, an Act to amend the Federal Water Pollution Control Act and to provide for renewal of the quality of the Nation's waters, and for other purposes.

The message from the President is as follows:

To the House of Representatives:

I am returning herewith without my approval H.R. 1, the "Water Quality Act of 1987." Because all regulatory, research, enforcement, and permit issuance activities are continued under permanent law and current appropriations—including grants to finance the construction of sewage treatment plants—I emphasize that my veto will have no impact whatsoever on the immediate status of any water quality programs.

The cleanup of our Nation's rivers, lakes, and estuaries is, and has been for the past 15 years, a national priority of the highest order. This Administration remains committed to the objectives of the Clean Water Act and to continuing the outstanding progress we have made in reducing water pollution. But the issue facing me today does not concern the ensuring of clean water for future generations. The real issue is the Federal deficit—and the pork-barrel and spending boondoggles that increase it.

The Clean Water Act construction grant program, which this legislation funds, is a classic example of how well-intentioned, short-term programs balloon into open-ended, long-term commitments costing billions of dollars more than anticipated or needed. Since 1972, the Federal government has helped fund the construction of local sewage treatment facilities. This is a matter that historically and properly was the responsibility of State and local governments. The Federal government's first spending in this area was intended to be a short-term effort to assist in financing the backlog of facilities needed at the time to meet the original Clean Water Act requirements. When the program started, the cost of that commitment to the Federal taxpayer was estimated at \$18 billion. Yet to date, \$47 billion has been appropriated. H.R. 1 proposes to put still another \$18 billion of taxpayers' money into this program. Despite all this money, only 67 percent of all municipalities have actually completed the construction needed to comply with the Clean Water Act pollution limits. On the other hand, non-municipal treatment systems, which have received no Federal funding, have completed 94 percent of the construction needed for compliance with Federal pollution standards. I want a bill that spends only what we need to spend and no more—not a blank check. For these reasons I must disapprove H.R. 1, a bill virtually identical to S. 1128, which I disapproved last November.

Money is not the only problem with this legislation. In my November 6th memorandum of disapproval, I noted that S. 1128 was unacceptable not only because it provided excessive funding for the sewage treatment grant program, but also because it reversed important reforms enacted in 1981, for example, increasing the Federal share of costs on some projects that municipalities were going to build anyway. Furthermore, both S. 1128 and this

bill would also establish a federally controlled and directed program to control what is called "non-point" source pollution. This new program threatens to become the ultimate whip hand for Federal regulators. For example, in participating States, if farmers have more run-off from their land than the Environmental Protection Agency decides is right, that Agency will be able to intrude into decisions such as how and where the farmers must plow their fields, what fertilizers they must use, and what kind of cover crops they must plant. To take another example, the Agency will be able to become a major force in local zoning decisions that will determine whether families can do such basic things as build a new home. That is too much power for anyone to have, least of all the Federal Government.

As part of my FY 1988 Budget, I proposed legislation that would avoid all these problems, while continuing our commitment to clean water. It would provide \$12 billion for the sewage treatment program, halfway between the \$8 billion I had proposed in 1985 and the \$18 billion the Congress proposes. Senator Dole introduced this proposal as a substitute for H.R. 1.

Specifically, the Dole substitute that was voted on by the Senate was identical to all provisions of H.R. 1 for programs other than sewage treatment, with one important exception—its program for non-point source pollution was not an open end for Federal regulators. It kept Federal environmental regulators off of our farms, off of our municipal zoning boards, and out of the lives of ordinary citizens. The Dole substitute would have given States complete discretion over participation in the non-point source pollution program and complete discretion over how they used Federal funds in the program. Let me repeat—controlling non-point source pollution has the potential to touch, in the most intimate ways, practically all of us as citizens, whether farmers, business people, or homeowners. I do not believe State programs should be subject to Federal control.

The \$12 billion requested in the Dole substitute would have financed the "Federal share" of all of the treatment plants that have already been started. It would also have provided the "Federal share" of financing for all facilities needed to meet the July 1, 1988, compliance requirements in the Clean Water Act. It was as much money as we needed to get the job done—period.

The Dole substitute offered the Congress a genuine compromise that met all of the national objectives and goals. Nevertheless, the Congress chose to ignore that proposal, forgoing even the normal hearing process, and repassed last year's legislation with virtually no changes. The House Rules Committee even prevented consideration of this compromise by the full House. They sought to challenge me.

But in so doing they are sending a message to the American people and the world that those who want to raise taxes and take the lid off spending are back again. This is perilous.

H.R. 1 gave the Congress the opportunity to demonstrate whether or not it is serious about getting Federal spending under control. The Congress should fulfill its responsibility to the American people and support me on these important fiscal issues. Together we can cut the deficit and reduce spending. But by passing such measures as H.R. 1, the Congress divides our interests and threatens our future.

RONALD REAGAN.

THE WHITE HOUSE, January 30, 1987.
The PRESIDING OFFICER (Mr. DASCHLE). Time for debate is limited to 1 hour, to be equally divided between the Senator from North Dakota and the Senator from Vermont. The vote thereon will occur at 3 p.m.

The PRESIDING OFFICER (Mr. Adams). All time is yielded back. The question is, shall the bill pass, the objections of the President of the United States to the contrary notwithstanding? The yeas and nays are required. The clerk will call the roll.

The legislative clerk called the roll.

The PRESIDING OFFICER. Are there any other Senators in the Chamber desiring to vote?

The yeas and nays resulted: Yeas 86, nays 14, as follows:

[Rollcall Vote No. 19 Leg.]

YEAS—86

Adams	Glenn	Nunn
Baucus	Core	Packwood
Bentsen	Graham	Pell
Biden	Grainger	Pratt
Bingaman	Harkin	Proxmire
Bond	Hatch	Fryer
Boren	Hatfield	Quayle
Boechwiler	Hecht	Reid
Bradley	Heflin	Riegle
Breaux	Helms	Rockefeller
Bumpers	Hollings	Roth
Burdick	Humphrey	Rudman
Byrd	Inouye	Sanford
Chafee	Johnston	Sarbanes
Chiles	Kasten	Sasser
Cohen	Kennedy	Shelby
Conrad	Kerry	Simon
Cranston	Lautenberg	Simpson
D'Amato	Leahy	Specter
Danforth	Levin	Stafford
Daschle	McCain	Stennis
DeConcini	McConnell	Stevens
Dixon	Matsunaga	Trible
Dodd	Meicher	Warner
Domenici	Metzenbaum	Weicker
Durenberger	Mikulski	Wilson
Evans	Mitchell	Wirth
Ford	Moyrhan	Zorinsky
Feiler	Murkowski	

NAYS—14

Armstrong	Gramm	Nickles
Cochran	Helms	Symms
Dole	Kassebaum	Thurmond
Exon	Lugar	Wallop
Gore	McClure	

The PRESIDING OFFICER. On this vote, the yeas are 86 and the nays are 14. Two-thirds of the Senators present and voting having voted in the affirmative, the bill, on reconsideration, is passed, the objections of the President of the United States to the contrary notwithstanding.

APPENDIX B

Regional Contact Questionnaire

This appendix provides the questionnaire used to survey EPA regional permitting authorities on the types or categories of discharges that could be considered *de minimis*, as well as to recommend regulatory options and associated procedural implications, with respect to the classification of *de minimis* discharges. A similar questionnaire was developed for the State permitting agencies.

DE MINIMIS REGIONAL CONTACT QUESTIONNAIRE #1

REGION: _____

CONTACT: _____

AGENCY: _____

ADDRESS: _____

PHONE #: _____

ADDITIONAL INFORMATION: _____

6. Miscellaneous: _____

7. State Contacts: _____

APPENDIX C

***De Minimis* Discharge Survey Results**

Potential *De Minimis* Discharges

EPA Region Responses	C1-C4
EPA Responses	C5-C8

This appendix provides the results of the Study's survey on the types or categories of discharges that could be considered *de minimis*. Results were compiled for the ten EPA regional permitting authorities and nine State permitting agencies recommended by the regional offices.

EPA REGION RESPONSES TO POTENTIAL DE MINIMIS DISCHARGES

	Region I	Region II	Region III	Region IV	Region V
Aquifer Restoration	No comment.	No comment.	<u>NO</u> - Can be dealing with highly toxic chemicals (Superfund).	<u>OK</u> - Originally suggested from NC.*	<u>NO</u> - You are pumping contamination, should not eliminate public notice.
Brine Discharger (Stripper Wells)	No comment.	? - Preliminary results of a study indicate potential impacts in NY.	? - A NEIC report indicates some situations where impacts can be minimal.*	<u>NO</u> - A lot of problems, however, may fit under a general permit.	<u>NO</u> - Strong argument for zero discharge in Michigan.
Car Washes	No comment.	<u>NO</u> - Hesitant because of phosphorus, salt, and oil and grease.	No comment.	<u>NO</u> - Should be kept under a regular permit - dirt detergents, oil.	No comment.
Fish Hatcheries	<u>OK</u> - Originally suggested.*	? - Can have severe nutrient problems.	<u>OK</u> - Originally suggested by region.*	? - Depends on type of operation, fish, and size (*-NC trout farms only).	? - Chemicals used to control fish disease. However, are generally minor permits.
Heat Pumps	No comment.	<u>OK</u> - If heat is considered in relation to flow.	<u>OK</u> - VA may have permits for these dischargers.	No comment.	<u>OK</u> - MN is working on a general permit for these*.
Homes	<u>OK</u> - Many coastal or island discharges only 2-300 GPD.*	? - Septic systems should be a Department of Health concern.	<u>OK</u> - A high number in PA (septic discharges).	? - Are county regulated	No comment.
Hydrostatic Testing	No comment.	<u>OK</u> - If strictly hydro testing. Beware of acid and chemicals being rinsed from new pipe.	No comment.	No comment.	No comment.
Mine Dewatering	No comment.	No comment.	<u>NO</u> - Mines, especially coal mines, are a serious problem in Region III.	<u>NO</u> - Varies too much, coal is a problem (*-NC).	<u>NO</u> - Location of discharges can move.
Noncontact Cooling	<u>OK</u> - Must have criteria based on heat.*	<u>OK</u> - Needs criteria based on fraction of flow or temperature rise.*	<u>OK</u> - Logical choice; some situations where it could be covered.	? - Can't be too general, should not exempt power plants. Temperature should be a criteria (*-NC)	<u>OK</u> - WI has a general permit.*

EPA REGION RESPONSES TO POTENTIAL DE MINIMIS DISCHARGES (continued)

	Region VI	Region VII	Region VIII	Region IX	Region X	Totals
Aquifer Restoration	? - Variable depending on contamination.	<u>NO</u> - If pumping contamination	No comment.	? - Maybe, if contamination meets drinking water standards, or for short-term pumping tests	<u>OK</u> - Not addressed in Region.	2 <u>OK</u> 2 ? 3 <u>NO</u> 3 No comment
Brine Discharger (Stripper Wells)	<u>OK</u> - Currently ignored, left up to individual.	No comment.	? - From water softening cylinders could be a problem.	? - Possibly to marine environments, but not freshwater	No comment	2 <u>OK</u> 3 ? 2 <u>NO</u> 3 No comment
Car Washes	? - Fairly insignificant, but very questionable.*	<u>OK</u> - Only a few directs within region.	<u>NO</u> - Can be a problem, degreaser, hot water, etc.	No comment	No comment	1 <u>OK</u> 1 ? 3 <u>NO</u> 5 No comment
Fish Hatcheries	<u>OK</u> - For special cases, trout and shrimp farms.	? - Only a handful within the region, may be a problem.	? - Size must be a consideration.	<u>NO</u> - Can be quite large and cause problems, are easy permits to write and keep.	<u>OK</u> - For small farm pond types, not large or raceway facilities	4 <u>OK</u> 5 ? 1 <u>NO</u>
Heat Pumps	<u>OK</u>	<u>OK</u>	No comment.	<u>OK</u>	<u>OK</u>	7 <u>OK</u> 3 No comment
Homes	<u>OK</u> - See small sewage treatment facilities	<u>OK</u> - Individual septic systems	<u>OK</u> - Generally a low permitting priority, but may be high-strength effluent	? - Public health concerns.	<u>OK</u> - See small treatment plants.	6 <u>OK</u> 3 ? 1 No comment
Hydrostatic Testing	<u>OK</u> - Constantly bombarded with applications, hard to deal with. Good candidate.	<u>OK</u> - One state is issuing a general permit for these dischargers, new VS existing pipelines is a consideration	<u>OK</u> - Generally minor, however, rate of discharge, water source, and type of line should be considered.	<u>OK</u> - If additives are not used.	<u>OK</u>	6 <u>OK</u> 4 No comment
Mine Dewatering	<u>NO</u> - Coal operations can be significant	No comment.	No comment	<u>NO</u>	<u>NO</u> - Can release large amounts of pollutants to pristine environments	6 <u>NO</u> 4 No comment
Noncontact Cooling	<u>OK</u>	<u>OK</u> - Biocide should be a consideration.	<u>OK</u>	<u>OK</u> - Consider biocides, flow rate, and temperature	<u>OK</u> - Many minor facilities.	4 <u>OK</u> 1

KEY: OK - generally in agreement with the category
NO - generally in opposition to the category
 maybe, under ideal

* Originally suggested by Region
 NC - Originally suggested by North Carolina

EPA REGION RESPONSES TO POTENTIAL DE MINIMIS DISCHARGES

	Region I	Region II	Region III	Region IV -	Region V
Oil Storage Facilities Oil-Waste Separators	No comment.	? - Perhaps, may fit under a general permit but would not exclude from NPDES.	? - May be a minor category, however, spills are a serious concern.	OK - Many are covered under general permits (*-NC).	OK - But do have potential for spills.
Pit Dewatering	OK - Construction dewatering.*	No comment.	No comment.	OK - For certain types.	No comment.
Quarries	No comment.	No comment.	No comment.	No comment.	No comment.
Sand Dredging	No comment.	No comment.	? - Have not seen many problems within the region.	OK - No long-standing harm, are mobile operations (*-NC).	No comment.
Seafood Packaging & Processing	No comment.	NO - Tuna packers have been shown to be a real problem (BOD).	NO - Problems have occurred within Region III.	NO - Especially for processing operations. Small packing or dock operations may be OK (*-NC packing).	No comment.
Small Sewage Treatment Facilities	OK - Perhaps less than 0.1 MGD.*	? - Small facilities tend to be poorly operated and maintained.	OK - VA and MD are working on general permits for these types.*	? - Health department could better handle these dischargers; some are currently neglected.	No comment.
Steam Condensate	No comment.	OK - If heat is considered in relation to flow.	No comment.	OK	OK - A lot of this type within region, volume is small.*
Swimming Pools	OK	OK - Generally, only a few concerns (chlorine).	OK - Minimal type problem.	OK - Are currently being overlooked, exemption would be a good option.	OK - Good candidate, generally small.
Water Filtration Plants	OK - *	OK - But should not be deregulated.	OK - For small dischargers into large streams; the converse of this may be a problem.	OK - However, special cases should be looked at (i.e., aluminum sludge, size, etc.)	? - There are a lot that could fit in the region, but ensure they are De Minimis

EPA REGION RESPONSES TO POTENTIAL DE MINIMIS DISCHARGES (continued)

	Region VI	Region VII	Region VIII	Region IX	Region X	Totals
Oil Storage Facilities	<u>OK</u>	<u>OK</u> - Probably fits category of de minimis	<u>OK</u> - If housekeeping is good, no worse than parking lots	<u>?</u> - Storage facilities only, waste-separators can have toxics	<u>OK</u> - If only runoff	6 <u>OK</u> 3 <u>?</u>
Oil-Waste Separators						1 No comment
Pit Dewatering	No comment.	No comment.	No comment.	<u>NO</u>	No comment.	2 <u>OK</u> 1 <u>NO</u> 7 No comment
Quarries	No comment	<u>OK</u> - Originally suggested ^A	No comment.	<u>?</u> - Maybe nonmetal bearing pits.	No comment	1 <u>OK</u> 8 <u>NO</u> 1 <u>?</u> 8 No comment
Sand Dredging	<u>OK</u>	<u>?</u> - A few site problems.	No comment.	<u>NO</u> - Some cause significant stream problems	<u>NO</u> - Placer mining needs 5 year permit.	2 <u>OK</u> 2 <u>NO</u> 2 <u>?</u> 4 No comment
Seafood Packaging & Processing	<u>NO</u> - In some cases, significant BOD problems.	No comment.	No comment.	<u>NO</u> - Canneries can cause severe problems.	<u>?</u> - Perhaps small packaging facilities (rinse water only)	1 <u>?</u> 4 <u>NO</u> 5 No comment
Small Sewage Treatment Facilities	<u>OK</u> - General permit for several thousand dischargers in LA. Relative size of stream should be considered.	<u>NO</u> - MT takes a lot of time to deal with these, located on high-quality small streams.	No comment.	<u>NO</u> - Small systems have worst operation and maintenance; potential for health impacts.	<u>OK</u> - Many small seasonal camps, etc., in this region. A waste of time to monitor. ^A	4 <u>OK</u> 2 <u>?</u> 2 <u>NO</u> 2 No comment
Steam Condensate	<u>OK</u>	No comment.	No comment.	<u>?</u>	<u>OK</u>	5 <u>OK</u> 1 <u>?</u> 4 No comment
Swimming Pools	<u>OK</u> - Good idea ^A	<u>OK</u>	<u>OK</u> - Generally not a problem.	<u>OK</u> - Good candidate	<u>OK</u>	10 <u>OK</u>
Water Filtration Plants	<u>OK</u> - Good candidate	<u>OK</u> - Generally not a problem ^A	<u>?</u> - Can be a problem on small streams, clarifier underflow is allowed to be discharged on a regular basis	<u>OK</u> - Good candidate	<u>OK</u> - Part of backlog, 10 year option would be suitable	8 <u>OK</u> 2 <u>?</u>

KEY: OK - generally in agreement with the category
NO - generally in opposition to the category
? - maybe, undecided
No comment - not discussed or no feeling toward category

^A - Originally suggested by Region
^B - Originally suggested by North Carolina

STATE RESPONSES TO POTENTIAL DE MINIMIS DISCHARGES

	Maine	New Jersey	Pennsylvania	Kentucky	Wisconsin
Aquifer Restoration	<u>OK</u> - Is in need of some kind of regulation, should meet applicable water standards.	<u>NO</u> - Can be a problem (well drilling chemicals).	<u>NO</u> - Contaminated water should not be considered de minimis.	No comment.	<u>NO</u> - Toxics.
Brine Discharges (Stripper Wells)	No comment.	No comment.	<u>NO</u> - A major problem, PA has a separate bureau to handle these dischargers.	<u>NO</u> - All are permitted in KY with a new chloride standard.	<u>NO</u> - Industrial brine dischargers are permitted in WI
Car Washes	<u>NO</u> - Soaps and nutrients.	<u>NO</u> - NJ has tried to convert most to indirect or zero dischargers.	<u>NO</u> - PA tries to discharge these subsurface in non-sewered area.	<u>NO</u> - Are steering toward zero discharge.	<u>NO</u> - Are encouraged to be indirect dischargers.
Fish Hatcheries	<u>NO</u> - Can be a significant nutrient problem, may fit a general permit scheme.	<u>NO</u> - Significant contributor of BOD, bacteria, and solids.	<u>NO</u> - Are a significant problem on high-quality streams.	<u>NO</u> - Have denied permits.	<u>NO</u> - Ammonia can be a problem.
Heat Pumps	<u>OK</u> - May be possible to exempt this category.	<u>OK</u> - But there are not many in NJ.	<u>OK</u> - Not a problem.	<u>OK</u>	<u>OK</u> - See Noncontact Cooling.
Homes	<u>NO</u> - Coastal package plant discharges have caused shellfish harvest problems due to bacteria.	<u>NO</u> - See Sewage Treatment Plants.	? - Significant from a public health standpoint (raw sewage).	<u>OK</u> - If less than 2,500 gal/d, a general permit may fit.	No comment.
Hydrostatic Testing	<u>OK</u> - Exemption, over-the-counter, or a rule may fit this category.	No comment.	<u>NO</u> - Can cause substantial environmental problems.	<u>NO</u> - Some PCBs have been detected, currently involved in litigations.	<u>OK</u> - Are considered de minimis by state.
Mine Dewatering	<u>OK</u> - Over-the-counter processing or general permit.	? - NJ does not have a coal problem, localized nuisances have occurred.	<u>NO</u> - Acid mine drainage is a major problem in PA.	<u>NO</u> - Has been a problem in KY; 3,100 dischargers are under a general permit.	<u>NO</u> - Should be addressed individually.
Noncontact Cooling	<u>OK</u> - Covered under a general permit in Region I, site specifics must be addressed.	<u>OK</u> - Has issued a general permit for small discharges.	<u>OK</u> - Not a problem.	<u>NO</u> - Are currently permitted, new toxics standards must be considered	<u>OK</u> - Under a general permit.

STATE RESPONSES TO POTENTIAL DE MINIMIS DISCHARGES (continued)

	Texas	Missouri	California	Washington	Totals
Aquifer Restoration	<u>NO</u> - Are currently regulated.	<u>?</u> - Dependent upon contaminant.	<u>OK</u> - Generally no problems.	<u>NO</u>	2 - OK 1 - ? 5 - NO 1 - No comment
Brine Discharges (Stripper Wells)	<u>NO</u> - Regulated by railroad commission.	<u>?</u> - MO returns brine to aquifer.	<u>NO</u> - Large number of abatement orders currently.	No comment.	1 - ? 5 - NO 3 - No comment.
Car Washes	<u>NO</u>	<u>NO</u> - Solids and soaps.	<u>OK</u> - No problems.	<u>NO</u> - Soaps and detergents.	1 - OK 8 - NO
Fish Hatcheries	<u>OK</u> - State does not issue permits for these.	<u>NO</u> - When cleaning operations are included in discharge.	<u>?</u> - Discharges to small streams can cause problems.	<u>NO</u> - Is of current public interest; have seen some problems.	1 - OK 1 - ? 7 - NO
Heat Pumps	<u>NO</u> - See Steam Condensate.	<u>OK</u> - For households.	<u>OK</u>	<u>OK</u> - If not large, commercial units.	8 - OK 1 - NO
Homes	<u>NO</u> - Health concerns.	<u>OK</u> - Not regulated, therefore, are potentially de minimis.	No comment.	<u>NO</u> - See Sewage Treatment Facilities.	2 - OK 1 - ? 4 - NO 2 - No comment
Hydrostatic Testing	<u>OK</u> - Currently regulated by letters, working on a rule or general permit.	<u>OK</u>	<u>OK</u>	<u>?</u> - If short-term could be regulated by some other means than NPDES.	5 - OK 1 - ? 2 - NO 1 - No comment
Mine Dewatering	<u>NO</u> - Lignite mines are covered by state-wide rules.	<u>NO</u> - Coal and lead have been a problem.	<u>NO</u> - There have been problems in these areas.	No comment.	1 - OK 1 - ? 6 - NO 1 - No comment
Noncontact Cooling	<u>?</u> - Generally permitted.	<u>OK</u> - For small dischargers.	<u>OK</u>	<u>OK</u> - If low flow and temperature	7 - OK 1 - ? 1 - NO

STATE RESPONSES TO POTENTIAL DE MINIMIS DISCHARGES (continued)

	Maine	New Jersey	Pennsylvania	Kentucky	Wisconsin
Oil Storage Facilities Oil-Waste Separators	<u>?</u> - Separators are currently under a general permit, however, there is concern whether this regulation is adequate. PAH's have been detected.	<u>NO</u> - Are currently not being adequately regulated.	<u>OK</u> - Probably fits into a de minimis category.	<u>OK</u> - A general permit may fit here.	<u>OK</u> - Covered under a general permit.
Pit Dewatering	<u>OK</u> - Over-the-counter or general permit.	No comment.	<u>NO</u>	<u>OK</u> - General permit.	<u>OK</u> - Covered under a general permit.
Quarries	<u>OK</u> - Over-the-counter or general permit.	<u>NO</u> - Can be a problem.	<u>OK</u> - Does not appear to be a significant problem.	<u>OK</u> - General permit.	<u>OK</u> - Covered under a general permit.
Sand Dredging	<u>OK</u> - Over-the-counter or general permit.	No comment.	<u>OK</u> - Does not appear to be a significant problem.	<u>OK</u> - General permit.	<u>OK</u> - Covered under a general permit.
Seafood Packaging & Processing	<u>NO</u> - Receiving water specific. May fit into a general permit scheme.	<u>NO</u> - Even minor facilities can cause major problems.	<u>?</u> - Not familiar with these types of facilities.	No comment.	No comment
Small Sewage Treatment Facilities	<u>NO</u> - See Homes.	<u>NO</u> - NJ would not support de minimis classification of these plants.	<u>OK</u> - Not a real problem.	<u>NO</u> - KY has had a significant problem with package plants.	<u>OK</u> - May be covered under a general permit.
Steam Condensate	<u>OK</u>	<u>OK</u> - If discharge is uncontaminated.	No comment.	<u>OK</u>	<u>OK</u> - See Noncontact Cooling.
Swimming Pools	<u>OK</u> - The use of a rule may fit this category.	<u>?</u> - Category where there is a potential problem, but would like to ignore.	<u>OK</u> - Not a problem.	<u>OK</u>	<u>OK</u>
Water Filtration Plants	<u>OK</u> - This category needs to be addressed somehow; perhaps a general permit.	<u>?</u> - In NJ, water plants draw large percentages from streams and want to put back the solids	<u>OK</u> - Probably a de minimis category.	<u>NO</u> - Just issued a lot of permits to get them in line	<u>OK</u> - Covered under a general permit

STATE RESPONSES TO POTENTIAL DE MINIMIS DISCHARGES (continued)

	Texas	Missouri	California	Washington	Totals
Oil Storage Facilities	<u>OK</u> - For small tank farms or bulk stations.	<u>OK</u> - Generally just stormwater.	<u>?</u> - Series of cleanup and abatement actions on these types in CA.	<u>?</u> - Facilities down to and including bulk stations and distribution terminals may be significant.	5 - OK 3 - ? 1 - NO
Oil-Waste Separators					
Pit Dewatering	<u>NO</u> - If they discharge, they are permitted.	<u>NO</u>	<u>?</u> - No operations in CA region.	<u>OK</u> - If the volume is not too high. Currently unregulated; a general permit may fit here.	4 - OK 1 - ? 3 - NO 1 - No comment
Quarries	<u>NO</u> - Potential for significant pollution.	<u>OK</u> - Limestone is not a problem.	<u>OK</u> - Generally no problems.	<u>OK</u> - See Pit Dewatering.	7 - OK 2 - NO
Sand Dredging	<u>?</u> - Generally zero discharge; a general permit may fit.	<u>?</u> - Based on nature of water, MO and MS Rivers are OK. Ozark pristine waters - NO.	<u>OK</u> - Generally no problems.	<u>OK</u> - See Pit Dewatering.	6 - OK 2 - ? 1 - No comment
Seafood Packaging & Processing	<u>NO</u> - Are currently regulated.	No comment.	<u>?</u> - Do not think they are generally a problem.	<u>?</u> - Only small operations such as oyster shucking are insignificant.	3 - ? 3 - NO 3 - No comment.
Small Sewage Treatment Facilities	<u>NO</u> - Are currently regulated.	<u>?</u> - Possibly for small dischargers, MO is trying to write a general permit.	<u>?</u> - A few under enforcement actions.	<u>NO</u> - Generally discourage small sewage discharges.	1 - OK 3 - ? 5 - NO
Steam Condensate	<u>NO</u> - Regulated with other operations in a permit.	<u>OK</u> - For small dischargers.	<u>OK</u>	<u>OK</u> - If small heating steam condensate.	7 - OK 1 - NO 1 - No comment
Swimming Pools	<u>OK</u> - Not regulated in TX.	<u>OK</u>	<u>OK</u>	<u>OK</u> - Generally; a few fish kills have been noted.	8 - OK 1 - ?
Water Filtration Plants	<u>?</u> - Most decant and recycle, close to zero discharge.	<u>OK</u> - If discharging to large receiving waters. In MO, only the MO and MS Rivers.	<u>OK</u>	<u>?</u> - Controversial issue, problems setting limits	5 - OK 3 - ? 1 - NO

APPENDIX D

***De Minimis* Discharge Survey Results**

Potential Regulatory Options

EPA Region Responses	D1-D2
State Responses	D3-D4

This appendix provides the results of the Study's survey on the potential regulatory options. Results were compiled for the ten EPA regional permitting authorities and nine State permitting agencies recommended by the regional offices.

EPA REGION RESPONSES TO POTENTIAL DE MINIMIS REGULATORY OPTIONS

	Region I	Region II	Region III	Region IV	Region V
Model Permit	<u>NO</u> - Still requires individual notification requirements.	<u>OK</u> - May fit certain situations such as construction runoff and other high burden temporary operations.	<u>?</u> - Already being used to some extent.	<u>NO</u> - Is not any different from a standard permit put in a word processor.	<u>NO</u> - States have used this and it is not a great advantage.
General Permit	<u>OK</u> - Essentially a letter stating that a standard permit is not needed.	<u>OK</u> - Good idea, especially for stripper wells and oil storage facilities.	<u>OK</u> - Good option, is being considered for oil & gas and small sanitary discharges.	<u>OK</u> - Is used in KY for coal mines and private residences.	<u>OK</u> - Except process to get state authority is too time consuming.
Ten-Year Permit	<u>OK</u> - As long as notification of changes is still mandatory.	<u>OK</u> - If mandatory monitoring and inspections are still required.	<u>OK</u> - May be a viable option in some cases.	<u>NO</u> - If it is not important, it would be better to regulate under a general permit or to exempt from requirements.	<u>OK</u> - Good idea. Should include short application format and simplified procedures.
Over-the-Counter	<u>?</u> - No comment.	<u>OK</u> - If it can actually streamline the process.	<u>NO</u> - Does not feel this type of process would be helpful.	<u>NO</u> - Would not have public participation, also similar to general permit in terms of regulations.	<u>?</u> - No comment.
Exclusion from NPDES	<u>?</u> - Perhaps facilities and POTWs with less than 1,000 GPD.	<u>NO</u> - These operations can have effects on small, high quality streams. Also makes permittee aware of environmental concerns.	<u>OK</u> - May be a viable option for certain categories.	<u>?</u> - If unimportant, it may be an option. See comments on the 10-year permit.	<u>NO</u> - Regulations say that all point sources must be permitted, would not change this.

KEY: OK - generally in agreement with the option.
NO - generally in opposition with the option.
? - maybe, undecided, or no comment.

EPA REGION RESPONSES TO POTENTIAL DE MINIMIS REGULATORY OPTIONS (continued)

	Region VI	Region VII	Region VIII	Region IX	Region X	Totals
Model Permit	? - Not familiar with process, but may be appropriate.	? - No comment.	? - For guidance only, must modify permits to suit specific needs.	<u>NO</u> - Is in use and does not tend to eliminate processing burden.	<u>OK</u> - Could work for certain categories (placer mines and fish hatcheries).	2-OK 4-? 4-NO
General Permit	<u>OK</u> - The region needs to utilize this more, and interaction with EPA headquarters needs to be streamlined.	<u>OK</u> - States are using this, effective for De Minimis categories.	<u>OK</u> - However, approval and interaction with EPA headquarters needs to be expedited.	<u>OK</u> - But needs to be easier getting through EPA headquarter's review.	<u>OK</u> - But issuance through EPA headquarters needs to be streamlined.	10-OK
Ten-Year Permit	<u>OK</u> - Good idea, perhaps even 15 years for reissued permits.	<u>OK</u> - Would delay the reissuance of thousands of minor facilities.	? - Mixed emotions, maybe <u>OK</u> if the option to reopen is there.	<u>OK</u> - May be useful in some instances.	<u>OK</u> - Many facilities where discharge will not change, and notification is required if changes do occur.	8-OK 1-? 1-NO
Over-the-Counter	<u>NO</u> - Circumventing USEPA regulations and the Clean Water Act, not much better than not addressing discharges.	? - Sounds close to the concept of a general permit, may be applicable to nondelegated states.	<u>OK</u> - A modification of the general permit, a good concept.	? - May be a useful alternative.	<u>OK</u> - Good idea, especially for unique, noneffluent discharges and emergency permitting needs. Option to revoke if a problem.	3-OK 4-? 3-NO
Exclusion from NPDES	<u>OK</u> - Ideal for some categories, minor sources which are less significant than runoff.	? - Perhaps, but some mechanism for regulation is still needed.	<u>NO</u> - Perhaps, prefer to determine on a case-by-case basis.	? - Perhaps, but some allowances must be set for permitting authorities to permit facilities on a case-by-case basis.	<u>OK</u> - Especially for unique, noneffluent type discharges.	3-OK 5-? 2-NO

KEY: OK - generally in agreement with the category
NO - generally in opposition to the category
? - maybe, undecided, or no comment

STATE RESPONSES TO POTENTIAL DE MINIMIS REGULATORY OPTIONS

	Maine	New Jersey	Pennsylvania	Kentucky	Wisconsin
Model Permit	<u>NO</u> - Is a modification of the standard procedure being used currently.	<u>OK</u> - Agency would probably not object.	<u>NO</u> - Would have limited application within PA due to intricate water quality standards.	<u>OK</u> - Is currently used.	<u>NO</u> - Already in use, not much benefit
General Permit	<u>OK</u> - A lot of potential, would also support an effort to make the process more flexible.	<u>OK</u> - Can be effective to balance resources and priorities, however, something is lost with this process.	<u>OK</u> - May be applicable.	<u>OK</u> - Has been effective in KY program for coal mines and individual homes.	<u>OK</u> - Good concept, one-half of WI facilities are covered under general permits, mostly de minimis.
Ten-Year Permit	<u>OK</u> - Particularly for general permit categories.	? - NJ has previously been opposed to this concept.	<u>OK</u> - Good administrative action for dealing with minors.	? - Only for general permit categories.	<u>OK</u> - In favor of this option for minor permits.
Over-the-Counter	<u>OK</u> - May be a good concept for particular categories.	? - Probably would not fit by itself, maybe combined with the general permit.	<u>NO</u> - If the process is that simple, why bother with a permit?	<u>NO</u>	<u>OK</u> - Elimination of public notice would be extremely helpful.
Exclusion from NPDES	<u>OK</u> - In some cases. Rulings for de minimis categories may be a related alternative.	<u>NO</u>	<u>OK</u> - Should be some exclusions. Perhaps, swimming pools and noncontact cooling.	<u>OK</u> - For some categories.	<u>OK</u> - In some cases.

KEY: OK - generally in agreement with the category
 NO - generally in opposition to the category
 ? - maybe, undecided
 No comment - not discussed or no feeling toward category

STATE RESPONSES TO POTENTIAL DE MINIMIS REGULATORY OPTIONS (continued)

	Texas	Missouri	California	Washington	Totals
Model Permit	? - Is currently used for domestic permits.	NO - Standard procedure already in use.	? - Not much different than what is being done.	NO - Does not help get around regulatory and administrative problems.	2 - OK 2 - ? 5 - NO
General Permit	OK - Good tool for large minor categories.	OK - Good for some classes, working on a general permit for sewage dischargers.	OK - Good idea, have applied for authority.	OK	9 - OK
Ten-Year Permit	NO - For process-oriented discharges, the 10-year term is too long.	? - Might be all right, but would have to change state law.	OK - Use a similar system for land discharges; 3, 5, and 10-year permit basis based on potential environmental impact.	NO - Permits and regulations change too much. May be used only as a temporary means to eliminate backlog "extension provisions."	4 - OK 3 - ? 2 - NO
Over-the-Counter	NO - State law requires notification, would not change.	NO - Would cause administrative problems.	OK - Allow use of own public notification requirements.	NO - Should not eliminate public notification.	3 - OK 1 - ? 5 - NO
Exclusion from NPDES	? - Zero discharge permits are excluded.	? - A general permit with no monitoring requirements would be better.	OK - By means of a waiver with a set of conditions.	OK - May fit some categories. Short-term discharges should be under some other regulatory mechanism, possibly a rule.	6 - OK 2 - ? 1 - NO

KEY: OK - generally in agreement with the category
 NO - generally in opposition to the category
 ? - maybe, undecided
 No comment - not discussed or no feeling toward category

APPENDIX E

Toxicity Indices for Industrial Subcategories

This appendix provides the industrial evaluations completed by EPA's National Enforcement Investigative Center, which defined the probable discharge of toxic pollutants from an industry, based on an assignment of toxicity indices. Industry types and subcategories in Groups II through VI had a high probability of toxic pollutant discharge and were excluded from *de minimis*.

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Adhesives & Sealants	Adhesives & Sealants	2891	206	V
Aluminum Forming	Can Making	3411	129	V
Aluminum Forming	Casting	3353 3355	129	V
Aluminum Forming	Cleaning & Pickling	3471	129	V
Aluminum Forming	Cold Rolling	3353 3355	129	V
Aluminum Forming	Drawing	3354 3357	129	V
Aluminum Forming	Extruding	3354	129	V
Aluminum Forming	Foil Rolling	3353	129	V
Aluminum Forming	Forging	3463	65	III
Aluminum Forming	Heat Treating	3398	129	V
Aluminum Forming	Hot Rolling	3353 3355	129	V
Auto & Other Laundries	Car Wash	7542	15	II
Auto & Other Laundries	Carpet & Upholstery Cleaning	7217	15	II
Auto & Other Laundries	Coin-Operated Laundries	7215	15	II
Auto & Other Laundries	Diaper Service	7214	15	II
Auto & Other Laundries	Dry Cleaning Plants	7216	15	II
Auto & Other Laundries	Industrial Laundry	7218	150	V
Auto & Other Laundries	Linen Supply	7213	150	V
Auto & Other Laundries	Power Laundries	7211	15	II
Battery Manufacturing	Alkaline Manganese Batteries	3691 3692	78	III
Battery Manufacturing	Carbon-Zinc Air Batteries	3691 3692	39	III
Battery Manufacturing	Carbon-Zinc Paper Lined Batteries	3691 3692	78	III
Battery Manufacturing	Carbon-Zinc, Paste Batteries	3691 3692	78	III
Battery Manufacturing	Lead Acid Batteries	3691 3692	78	III
Battery Manufacturing	Lead Acid Reserve Batteries	3691 3692	8	II
Battery Manufacturing	Lithium Batteries	3691 3692	39	III
Battery Manufacturing	Magnesium Reserve Batteries	3691 3692	39	III
Battery Manufacturing	Magnesium-Carbon Batteries	3691 3692	39	III
Battery Manufacturing	Mercury (Ruben) Batteries	3691 3692	78	III
Battery Manufacturing	Mercury (Weston) Cells	3691 3692	39	III
Battery Manufacturing	Miniature Alkaline Batteries	3691 3692	39	III
Battery Manufacturing	Nickel Zinc Batteries	3691 3692	39	III
Battery Manufacturing	Nickel-Cadmium, Dry Process Batteries	3691 3692	78	III
Battery Manufacturing	Nickel-Cadmium, Wet Process Batteries	3691 3692	78	III
Battery Manufacturing	Silver oxide-Zinc Batteries	3691 3692	78	III
Carbon Black	Channel Process	2895	12	II
Carbon Black	Furnace Process	2895	12	II
Carbon Black	Lamp Process	2895	12	II
Carbon Black	Thermal Process	2895	12	II
Coal Mining	Acid or ferruginous Mines	1111 1211	252	V
Coal Mining	Alkaline Mines	1111 1211	252	V
Coal Mining	Anthracite segment of acid mine subcategory	1111	126	V
Coal Mining	Coal Preparation Plant;	1111 1211	252	V
Coal Mining	Regrade/Revegetation	1111 1211	252	V
Coil Coating	Aluminum & Aluminized Steel	3479 3497	31	III
Coil Coating	Cold Rolled Steel	3479	31	III
Coil Coating	Galvanized Steel	3479	31	III
Copper Forming	Cold Rolling	3351	58	III

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Copper forming	Copper Foil	3151	29	III
Copper forming	Drawing	3151	58	III
Copper forming	Extrusion	3151	58	III
Copper forming	forging	3463	29	III
Copper forming	Hot Rolling	3151	50	III
Electrical Products	Capacitors	3629 3675	206	V
Electrical Products	Carbon & graphite products	3624	206	V
Electrical Products	Cathode ray & TV picture tubes	3672	206	V
Electrical Products	Crystals & Crystal products	3679	206	V
Electrical Products	Electric & electronic components	3699 3693 3679	206	V
Electrical Products	Electric lamps	3641	206	V
Electrical Products	Electron tubes & glass encapsulated devices	3671 3673	206	V
Electrical Products	ferrite electronic parts	3679	206	V
Electrical Products	Fuel cells	3679	206	V
Electrical Products	fuel cells	3679	103	V
Electrical Products	Insulated wire & cable	3357	206	V
Electrical Products	Insulating devices	3644	206	V
Electrical Products	Motors, generators & alternators	3621 3694	206	V
Electrical Products	Resistance heaters	3642	206	V
Electrical Products	Semiconductors	3674	206	V
Electrical Products	Switchgear	3613	206	V
Electrical Products	Transformers, dry	3612 3677	206	V
Electrical Products	Transformers, liquid filled	3612 3677	206	V
Electroplating	Job Shops	3471 3479	136	V
Electroplating	Processes within Electroplating category	3471	136	V
Explosives (Commercial Sect)	Explosives	2892	14	II
Explosives (Commercial Sect)	Explosives	2892	7	II
Explosives (Commercial Sect)	Initiators	2892	14	II
Explosives (Commercial Sect)	Initiators	2892	7	II
Explosives (Commercial Sect)	LAP & Dry Mix	2892	1	II
Explosives (Commercial Sect)	Propellants	2892	14	II
Explosives (Commercial Sect)	Propellants	2892	7	II
Explosives (Military Sect)	Demilitarization	2892	7	II
Explosives (Military Sect)	Explosives	2892	7	II
Explosives (Military Sect)	Initiators	2892	7	II
Explosives (Military Sect)	LAD	2892	7	II
Explosives (Military Sect)	Propellants	2892	7	II
Explosives (Military Sect)	Pyrotechnics	2892	7	II
Foundry	Aluminum Casting	3361	57	III
Foundry	Copper Casting	3362	57	III
Foundry	Iron & Steel	3321 3322 3324 3325	57	III
Foundry	Lead Casting	3369	57	III
Foundry	Magnesium Casting	3369	57	III
Foundry	Nickel Casting	3369	29	III
Foundry	Tin Casting	3369	29	III
Foundry	Titanium Casting	3369	29	III
Foundry	Zinc Casting	3369	57	III
Gum & Wood Chemicals	Char & Charcoal briquettes	2861	9	II

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Gum & Wood Chemicals	Essential Oil	2861	9	II
Gum & Wood Chemicals	Gum rosin	2861	9	II
Gum & Wood Chemicals	Resin based derivatives	2861	92	IV
Gum & Wood Chemicals	Resin based derivatives in SIC Code	2821	46	III
Gum & Wood Chemicals	Resin derivatives	2861	46	III
Gum & Wood Chemicals	Sulfate turpentine	2861	92	IV
Gum & Wood Chemicals	Sulfate turpentine	2861	46	III
Gum & Wood Chemicals	Tall oil	2861	92	IV
Gum & Wood Chemicals	Tall oil	2861	46	III
Gum & Wood Chemicals	Wood rosin	2861	92	IV
Gum & Wood Chemicals	Wood rosin	2861	46	III
Inorganic Chemicals Manuf.	Aluminum Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Aluminum Compounds	2819	81	IV
Inorganic Chemicals Manuf.	Aluminum Fluoride	2819	162	V
Inorganic Chemicals Manuf.	Aluminum Hydroxide	2819	81	IV
Inorganic Chemicals Manuf.	Aluminum Oxide	2819	81	IV
Inorganic Chemicals Manuf.	Aluminum Sulfate	2819	16	II
Inorganic Chemicals Manuf.	Alums	2819	81	IV
Inorganic Chemicals Manuf.	Ammonia Alum	2819	81	IV
Inorganic Chemicals Manuf.	Ammonium Chloride	2819	16	II
Inorganic Chemicals Manuf.	Ammonium Compounds	2819	81	IV
Inorganic Chemicals Manuf.	Ammonium Hydroxide	2819	16	II
Inorganic Chemicals Manuf.	Ammonium Molybdate	2819	81	IV
Inorganic Chemicals Manuf.	Ammonium Perchlorate	2819	81	IV
Inorganic Chemicals Manuf.	Ammonium Thiosulfate	2819	81	IV
Inorganic Chemicals Manuf.	Barium Carbonate	2819	16	II
Inorganic Chemicals Manuf.	Barium Compounds	2819	81	IV
Inorganic Chemicals Manuf.	Barium Sulfate	2816	81	IV
Inorganic Chemicals Manuf.	Beryllium Oxide	2819	81	IV
Inorganic Chemicals Manuf.	Bleaching Powder	2819	81	IV
Inorganic Chemicals Manuf.	Borax	2819	16	II
Inorganic Chemicals Manuf.	Boric Acid	2819	81	IV
Inorganic Chemicals Manuf.	Boron Compounds (not prod. @ mines)	2819	81	IV
Inorganic Chemicals Manuf.	Borosilicate	2819	81	IV
Inorganic Chemicals Manuf.	Brine	2819	81	IV
Inorganic Chemicals Manuf.	Bromine	2819	16	II
Inorganic Chemicals Manuf.	Byrytes Pigments	2816	81	IV
Inorganic Chemicals Manuf.	Calcium	2819	16	II
Inorganic Chemicals Manuf.	Calcium Carbide	2819	16	II
Inorganic Chemicals Manuf.	Calcium Carbonate	2819	16	II
Inorganic Chemicals Manuf.	Calcium Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Calcium Compounds (inorg)	2819	81	IV
Inorganic Chemicals Manuf.	Calcium Hypochlorite	2819	81	IV
Inorganic Chemicals Manuf.	Calcium Oxide	2819	81	IV
Inorganic Chemicals Manuf.	Carbon Dioxide	2811	16	II
Inorganic Chemicals Manuf.	Carbon Monoxide	2819	16	II
Inorganic Chemicals Manuf.	Cerium Salts	2819	81	IV
Inorganic Chemicals Manuf.	Chloride Process	2816	162	V

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Inorganic Chemicals Manuf.	Chlorine	2012	162	V
Inorganic Chemicals Manuf.	Chlorosulfuric Acid	2019	01	IV
Inorganic Chemicals Manuf.	Chrome Pigments	2016	162	V
Inorganic Chemicals Manuf.	Chromic Acid	2019	16	II
Inorganic Chemicals Manuf.	Chromium Oxide	2019	01	IV
Inorganic Chemicals Manuf.	Chromium Sulfate	2019	01	IV
Inorganic Chemicals Manuf.	Cobalt Chloride	2019	01	IV
Inorganic Chemicals Manuf.	Cobalt Sulfate	2019	01	IV
Inorganic Chemicals Manuf.	Cobalt 60 (radioactive)	2019	01	IV
Inorganic Chemicals Manuf.	Copper Chloride	2019	01	IV
Inorganic Chemicals Manuf.	Copper Iodide	2019	01	IV
Inorganic Chemicals Manuf.	Copper Sulfate	2019	162	V
Inorganic Chemicals Manuf.	Cuprous Oxide	2019	16	II
Inorganic Chemicals Manuf.	Diaphragm cell	2012	162	V
Inorganic Chemicals Manuf.	Ferric Chloride	2019	16	II
Inorganic Chemicals Manuf.	Ferrous Sulfate	2019	16	II
Inorganic Chemicals Manuf.	Fissionable Materials Production	2019	01	IV
Inorganic Chemicals Manuf.	Fluorine	2019	16	II
Inorganic Chemicals Manuf.	Gases, Industrial Comp. Liquid/Solid	2013	01	IV
Inorganic Chemicals Manuf.	Heavy Water	2019	01	IV
Inorganic Chemicals Manuf.	Hydrated Alumina Silicate Pwdr.	2019	01	IV
Inorganic Chemicals Manuf.	Hydrochloric Acid	2019	16	II
Inorganic Chemicals Manuf.	Hydrofluoric Acid	2019	162	V
Inorganic Chemicals Manuf.	Hydrogen	2019	16	II
Inorganic Chemicals Manuf.	Hydrogen Cyanide	2019	162	V
Inorganic Chemicals Manuf.	Hydrogen Peroxide	2019	16	II
Inorganic Chemicals Manuf.	Hydrogen Sulfide	2019	01	IV
Inorganic Chemicals Manuf.	Hydrophosphites	2019	01	IV
Inorganic Chemicals Manuf.	Iodine Chloride	2019	01	IV
Inorganic Chemicals Manuf.	Inorganic Acids (exc. HNO ₂ or H ₂ PO ₄)	2019	01	IV
Inorganic Chemicals Manuf.	Iodides	2019	01	IV
Inorganic Chemicals Manuf.	Iodine	2019	16	II
Inorganic Chemicals Manuf.	Iron Colors	2016	01	IV
Inorganic Chemicals Manuf.	Iron Oxide, Black	2016	01	IV
Inorganic Chemicals Manuf.	Iron Oxide, Magnetic	2016	01	IV
Inorganic Chemicals Manuf.	Iron Oxide, Yellow	2016	01	IV
Inorganic Chemicals Manuf.	Isotopes Radioactive	2019	01	IV
Inorganic Chemicals Manuf.	Lead Arsenate	2019	01	IV
Inorganic Chemicals Manuf.	Lead Dioxide, Brown (PbO ₂)	2016	01	IV
Inorganic Chemicals Manuf.	Lead Monoxide	2019	16	II
Inorganic Chemicals Manuf.	Lead Oxide, Red (Pb ₃ O ₄)	2016	01	IV
Inorganic Chemicals Manuf.	Lead Silicate	2019	01	IV
Inorganic Chemicals Manuf.	Lithium Carbonate	2019	16	II
Inorganic Chemicals Manuf.	Lithium Compounds	2019	01	IV
Inorganic Chemicals Manuf.	Luminous Compounds (radium)	2019	01	IV
Inorganic Chemicals Manuf.	Magnesium Compounds (inorg)	2019	01	IV
Inorganic Chemicals Manuf.	Manganese Dioxide (powder synthetic)	2019	01	IV
Inorganic Chemicals Manuf.	Manganese Sulfate	2019	16	II

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Inorganic Chemicals Manuf.	Mercury cell	2812	162	V
Inorganic Chemicals Manuf.	Mercury Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Mercury Oxide	2819	81	IV
Inorganic Chemicals Manuf.	Nickel Ammonium Sulfate	2819	81	IV
Inorganic Chemicals Manuf.	Nickel Carbonate	2819	81	IV
Inorganic Chemicals Manuf.	Nickel Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Nickel Fluoborate	2819	81	IV
Inorganic Chemicals Manuf.	Nickel Nitrate	2819	81	IV
Inorganic Chemicals Manuf.	Nickel Sulfate	2819	162	V
Inorganic Chemicals Manuf.	Nitric Acid	2819	16	II
Inorganic Chemicals Manuf.	Nitric Acid (strong)	2819	16	II
Inorganic Chemicals Manuf.	Nitrous Oxide	2813	81	IV
Inorganic Chemicals Manuf.	Nuclear Fuel Reactor Cases, Inorganic	2819	81	IV
Inorganic Chemicals Manuf.	Nuclear Fuel Scrap Re-Processing	2819	81	IV
Inorganic Chemicals Manuf.	Ochers	2816	81	IV
Inorganic Chemicals Manuf.	Oleum (fuming sulfuric acid)	2819	81	IV
Inorganic Chemicals Manuf.	Oxidation Catalyst from Porcelain	2819	81	IV
Inorganic Chemicals Manuf.	Oxygen & Nitrogen	2813	16	II
Inorganic Chemicals Manuf.	Perchloric Acid	2819	81	IV
Inorganic Chemicals Manuf.	Peroxides, Inorganic	2819	81	IV
Inorganic Chemicals Manuf.	Potash Alum	2819	81	IV
Inorganic Chemicals Manuf.	Potash Magnesia	2819	81	IV
Inorganic Chemicals Manuf.	Potassium Aluminum Sulfate	2819	81	IV
Inorganic Chemicals Manuf.	Potassium Bromide	2819	81	IV
Inorganic Chemicals Manuf.	Potassium Carbonate	2812	81	IV
Inorganic Chemicals Manuf.	Potassium Chlorate	2819	81	IV
Inorganic Chemicals Manuf.	Potassium Chloride	2819	16	II
Inorganic Chemicals Manuf.	Potassium Compounds Inorg. (exc. KOH-K2CO3)	2819	81	IV
Inorganic Chemicals Manuf.	Potassium Cyanide	2819	81	IV
Inorganic Chemicals Manuf.	Potassium Dichromate	2819	16	II
Inorganic Chemicals Manuf.	Potassium Hypochlorite	2819	81	IV
Inorganic Chemicals Manuf.	Potassium Iodide	2819	16	II
Inorganic Chemicals Manuf.	Potassium Metal	2819	16	II
Inorganic Chemicals Manuf.	Potassium Nitrate & Sulfate	2819	81	IV
Inorganic Chemicals Manuf.	Potassium Permanganate	2819	16	II
Inorganic Chemicals Manuf.	Potassium Sulfate	2819	81	IV
Inorganic Chemicals Manuf.	Radium Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Radium Luminous Compounds	2819	81	IV
Inorganic Chemicals Manuf.	Rare Earth Metal Salts	2819	81	IV
Inorganic Chemicals Manuf.	Reagent Grade Chem (inorg.ref.from tech. grades)	2819	81	IV
Inorganic Chemicals Manuf.	Salts of Rare Earth Metals	2819	81	IV
Inorganic Chemicals Manuf.	Satin White Pigment	2816	81	IV
Inorganic Chemicals Manuf.	Siennas	2816	81	IV
Inorganic Chemicals Manuf.	Silica Amorphous	2819	81	IV
Inorganic Chemicals Manuf.	Silica Gel	2819	81	IV
Inorganic Chemicals Manuf.	Silver Bromide	2819	81	IV
Inorganic Chemicals Manuf.	Silver Carbonate	2819	81	IV
Inorganic Chemicals Manuf.	Silver Chloride	2819	81	IV

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Inorganic Chemicals Manuf.	Silver Cyanide	2819	81	IV
Inorganic Chemicals Manuf.	Silver Iodide	2819	81	IV
Inorganic Chemicals Manuf.	Silver Nitrate	2819	81	IV
Inorganic Chemicals Manuf.	Silver Oxide	2819	81	IV
Inorganic Chemicals Manuf.	Soda Alum	2819	81	IV
Inorganic Chemicals Manuf.	Sodium Antimonate	2819	81	IV
Inorganic Chemicals Manuf.	Sodium Bicarbonate	2812	16	II
Inorganic Chemicals Manuf.	Sodium Bisulfite	2819	162	V
Inorganic Chemicals Manuf.	Sodium Carbonate	2812	81	IV
Inorganic Chemicals Manuf.	Sodium Chlorate	2819	81	IV
Inorganic Chemicals Manuf.	Sodium Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Sodium Compounds, Inorganic	2819	81	IV
Inorganic Chemicals Manuf.	Sodium Cyanide	2819	81	IV
Inorganic Chemicals Manuf.	Sodium Dichromate	2819	162	V
Inorganic Chemicals Manuf.	Sodium Fluoride	2819	16	II
Inorganic Chemicals Manuf.	Sodium Hydrosulfite	2819	162	V
Inorganic Chemicals Manuf.	Sodium Hydrosulfide	2819	16	II
Inorganic Chemicals Manuf.	Sodium Metal	2819	16	II
Inorganic Chemicals Manuf.	Sodium Silicate	2819	16	II
Inorganic Chemicals Manuf.	Sodium Silicofluoride	2819	81	IV
Inorganic Chemicals Manuf.	Sodium Sulfite	2819	81	IV
Inorganic Chemicals Manuf.	Sodium Thiosulfate	2819	16	II
Inorganic Chemicals Manuf.	Stannic & Stannous Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Stannic Oxide	2819	16	II
Inorganic Chemicals Manuf.	Strontium Carbonate (precipitated & oxide)	2819	81	IV
Inorganic Chemicals Manuf.	Strontium Nitrate	2819	81	IV
Inorganic Chemicals Manuf.	Sulfate Process	2816	162	V
Inorganic Chemicals Manuf.	Sulfides & Sulfites	2819	81	IV
Inorganic Chemicals Manuf.	Sulfocyanides	2819	81	IV
Inorganic Chemicals Manuf.	Sulfur (rec. or ref. incl. sour nat. gas)	2819	81	IV
Inorganic Chemicals Manuf.	Sulfur Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Sulfur Dioxide	2819	16	II
Inorganic Chemicals Manuf.	Sulfur Hexafluoride	2819	81	IV
Inorganic Chemicals Manuf.	Sulfuric Acid	2819	16	II
Inorganic Chemicals Manuf.	Thiocyanates, Inorganic	2819	81	IV
Inorganic Chemicals Manuf.	Tin Compounds, Inorganic	2819	81	IV
Inorganic Chemicals Manuf.	Titanium Dioxide	2816	162	V
Inorganic Chemicals Manuf.	Ultramarine Pigment	2816	81	IV
Inorganic Chemicals Manuf.	Umbers	2816	81	IV
Inorganic Chemicals Manuf.	Uranium Alog, Radioactive	2819	81	IV
Inorganic Chemicals Manuf.	White Lead Pigment (Pb(OH)2·PbCO3)	2816	81	IV
Inorganic Chemicals Manuf.	Whiting	2816	81	IV
Inorganic Chemicals Manuf.	Zinc Chloride	2819	81	IV
Inorganic Chemicals Manuf.	Zinc Oxide	2819	16	II
Inorganic Chemicals Manuf.	Zinc Sulfate	2819	16	II
Inorganic Chemicals Manuf.	Zinc Sulfide	2819	81	IV
Iron & Steel	Basic Oxygen Furnace (Wet Air Pollu. Control Methods)	3312	45	III
Iron & Steel	Basic Oxygen Furnace; Semi-Wet Air Pollu. Control Methods	3312	5	II

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Iron & Steel	Beehive Coke	3312	5	II
Iron & Steel	Blast Furnace (ferromanganese)	3312	45	III
Iron & Steel	Blast Furnace (Iron)	3312	45	III
Iron & Steel	By-Product Coke	3312	45	III
Iron & Steel	Cold Rolling	3312 3316	45	III
Iron & Steel	Combination Acid Pickling (Batch & Continuous)	3312	45	III
Iron & Steel	Continuous Alkaline Cleaning	3312	45	III
Iron & Steel	Continuous Casting & Pressure Slab Molding	3312 3312	45	III
Iron & Steel	Electric Arc Furnace (Wet Air Pollu. Control Methods)	3312 3313	45	III
Iron & Steel	Electric Arc Furnace; Seal-Wet Air Pollu. Control Methods	3312 3313	5	II
Iron & Steel	Hot Coatings - Galvanizing	3312 3479	45	III
Iron & Steel	Hot Coatings - Terne	3312	45	III
Iron & Steel	Hot Forming - Flat	3312	45	III
Iron & Steel	Hot Forming - Primary	3312	45	III
Iron & Steel	Hot Forming - Section	3312 3315	45	III
Iron & Steel	Open Hearth Furnace	3312	45	III
Iron & Steel	Pickling - Hydrochloric Acid - Batch & Continuous		45	III
Iron & Steel	Pickling - Sulfuric Acid - Batch & Continuous		45	III
Iron & Steel	Pipe & Tube	3312 3317	45	III
Iron & Steel	Scale Removal (Kohene & Hydride)	3312	45	III
Iron & Steel	Sintering	3312	45	III
Iron & Steel	Vacuum Degassing	3312 3312	45	III
Iron & Steel	Wire Pickling & Coating	3312	45	III
Leather Tanning & Finishing	Boot & Shoe Cut Stuck & Findings	3131	20	II
Leather Tanning & Finishing	Footwear, Except Rubber, NEC	3149	20	II
Leather Tanning & Finishing	Hair pulp, chrome tan, retan-wet finish	3111	197	V
Leather Tanning & Finishing	Hair save, chrome tan, retan-wet finish	3111	197	V
Leather Tanning & Finishing	Hair save, non-chrome tan, retan-wet finish	3111	197	V
Leather Tanning & Finishing	House Slippers	3142	20	II
Leather Tanning & Finishing	Leather Gloves & Mittens	3151	20	II
Leather Tanning & Finishing	Leather Goods, NEC	3199	20	II
Leather Tanning & Finishing	Luggage	316	20	II
Leather Tanning & Finishing	Men's footwear, Excep: Athletic	3143	20	II
Leather Tanning & Finishing	Ne beamhouse	3111	197	V
Leather Tanning & Finishing	Personal leather Goods except Women's Handbags	3172	20	II
Leather Tanning & Finishing	Retan-wet finish	3111	197	V
Leather Tanning & Finishing	Shearling	3111	197	V
Leather Tanning & Finishing	Through-the-blue	3111	197	V
Leather Tanning & Finishing	Women's footwear, Except Athletic	3144	20	II
Leather Tanning & Finishing	Women's Handbags & Purses	3171	20	II
Mach & Mech - Shipbuilding	Ship Building & Repairing	3731	86	IV
Mach & Mech-Porcelain Enamel	Aluminum	3631	72	III
Mach & Mech-Porcelain Enamel	Iron	3431	72	III
Mach & Mech-Porcelain Enamel	Steel	3633 3632 3639 3631	72	III
Mach & Mech-Porcelain Enamel	Strip Steel	3633 3632 3639	67	III
Mach & Mech -Photo. Suppl.	Diazo, Solvent Process	3861	124	V
Mach & Mech -Photo. Suppl.	Photographic Equipment & Supplies	3861	248	V
Mach & Mech -Photo. Suppl.	Thermal, Solvent Process	3861	124	V

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Mech & Elec-Porcelain (ename)	Copper	3911	72	III
Nonferrous Metals	Quartzite	3339	179	V
Nonferrous Metals	Indium	3339	179	V
Nonferrous Metals	Primary Aluminum	3334	358	VI
Nonferrous Metals	Primary Antimony	3339	36	III
Nonferrous Metals	Primary Arsenic	3339	36	III
Nonferrous Metals	Primary Barium	3339	36	III
Nonferrous Metals	Primary Beryllium	3339	358	VI
Nonferrous Metals	Primary Bismuth	3339	36	III
Nonferrous Metals	Primary Boron	3339	179	V
Nonferrous Metals	Primary Cadmium	3339	358	VI
Nonferrous Metals	Primary Calcium	3339	36	III
Nonferrous Metals	Primary Cesium	3339	179	V
Nonferrous Metals	Primary Cobalt	3339	179	V
Nonferrous Metals	Primary Columbium	3339	358	VI
Nonferrous Metals	Primary Copper	3331	358	VI
Nonferrous Metals	Primary Gallium	3339	179	V
Nonferrous Metals	Primary Germanium	3339	179	V
Nonferrous Metals	Primary Gold	3339	179	V
Nonferrous Metals	Primary Hafnium	3339	179	V
Nonferrous Metals	Primary Lead	3332	358	VI
Nonferrous Metals	Primary Lithium	3339	179	V
Nonferrous Metals	Primary Magnesium	3339	179	V
Nonferrous Metals	Primary Mercury	3339	179	V
Nonferrous Metals	Primary Molybdenum	3339	179	V
Nonferrous Metals	Primary Nickel	3339	179	V
Nonferrous Metals	Primary Platinum Group	3339	179	V
Nonferrous Metals	Primary Rare Earths	3339	179	V
Nonferrous Metals	Primary Rhenium	3339	179	V
Nonferrous Metals	Primary Rubidium	3339	179	V
Nonferrous Metals	Primary Selenium	3339	358	VI
Nonferrous Metals	Primary Silver	3339	358	VI
Nonferrous Metals	Primary Tantalum	3339	358	VI
Nonferrous Metals	Primary Tellurium	3339	358	VI
Nonferrous Metals	Primary Tin	3339	36	III
Nonferrous Metals	Primary Titanium	3339	179	V
Nonferrous Metals	Primary Tungsten	3339	358	VI
Nonferrous Metals	Primary Uranium	3339	179	V
Nonferrous Metals	Primary Zinc	3333	358	VI
Nonferrous Metals	Primary Zirconium	3339	179	V
Nonferrous Metals	Secondary Aluminum	3341	358	VI
Nonferrous Metals	Secondary Babbitt	3341	36	III
Nonferrous Metals	Secondary Beryllium	3341	36	III
Nonferrous Metals	Secondary Boron	3341	179	V
Nonferrous Metals	Secondary Cobalt	3341	179	V
Nonferrous Metals	Secondary Columbium	3341	179	V
Nonferrous Metals	Secondary Copper	3341	358	VI

TOXICITY INDICES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Nonferrous Metals	Secondary Lead	3341	358	VI
Nonferrous Metals	Secondary Magnesium	3341	179	V
Nonferrous Metals	Secondary Mercury	3341	179	V
Nonferrous Metals	Secondary Nickel	3341	179	V
Nonferrous Metals	Secondary Plutonium	3341	179	V
Nonferrous Metals	Secondary Precious Metals	3341	179	V
Nonferrous Metals	Secondary Rhenium	3339	179	V
Nonferrous Metals	Secondary Silver	3341	358	VI
Nonferrous Metals	Secondary Tantalum	3341	36	III
Nonferrous Metals	Secondary Tin	3341	179	V
Nonferrous Metals	Secondary Titanium	3341	179	V
Nonferrous Metals	Secondary Tungsten	3341	179	V
Nonferrous Metals	Secondary Uranium	3341	179	V
Nonferrous Metals	Secondary Zinc	3341	179	V
Ore Mining & Dressing	Aluminum	1051	54	III
Ore Mining & Dressing	Base & Precious Metals	1021	1031 1041 1044	54 III
Ore Mining & Dressing	Base & Precious Metals	1021	1041	27 II
Ore Mining & Dressing	ferroalloy	1061	54	III
Ore Mining & Dressing	ferroalloy	1061	27	II
Ore Mining & Dressing	Iron Ore	1011	54	III
Ore Mining & Dressing	Iron Ore	1011	27	II
Ore Mining & Dressing	Mercury	1092	5	II
Ore Mining & Dressing	Metal Ore	1099	5	II
Ore Mining & Dressing	Uranium	1094	54	III
Organic Chemicals	Cyclic Crudes & Interned., Dyes & Organic Pigments	2865	202	V
Organic Chemicals	Industrial Organic Chemicals, NEC	2869	202	V
Paint & Ink	Caustic or Water Washed Ink	2893	229	V
Paint & Ink	Caustic or Water Washed Paint	2851	229	V
Paint & Ink	Solvent Wash Ink	2893	23	II
Paint & Ink	Solvent Wash Paint	2851	23	II
Pesticides	Amides	2819 2869	640	VI
Pesticides	Formulation & Packaging of Agricultural Chemicals	2879	320	VI
Pesticides	Halogenated Organics	2819 2869	640	VI
Pesticides	Heterocyclic Nitrogens	2819 2869	640	VI
Pesticides	Metallo Organic	2819 2869	640	VI
Pesticides	Miscellaneous	2819 2869	640	VI
Pesticides	No Discharge Manufacturers	2819 2869	64	III
Pesticides	Organophosphorus	2819 2869	640	VI
Petroleum Refining	Petroleum Refining	2911	211	V
Pharmaceutical Manufacturing	Chemical Synthesis (Medicinals & Botanicals)	2833	391	VI
Pharmaceutical Manufacturing	Extraction (Biological Products)	2831	391	VI
Pharmaceutical Manufacturing	Extraction (Medicinals & Botanicals)	2833	391	VI
Pharmaceutical Manufacturing	Fermentation (Medicinals & Botanicals)	2833	391	VI
Pharmaceutical Manufacturing	Mixing & Formulation (Pharmaceutical Preparations)	2834	391	VI
Phosphate Manufacturing	Defluorinated Acid	2819	26	II
Phosphate Manufacturing	Defluorinated Acid	2819	33	II
Phosphate Manufacturing	Defluorinated Rock	2819	26	II
Phosphate Manufacturing	Defluorinated Rock	2819	33	II

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity		
			Index	Group	
Phosphate Manufacturing	Elemental Phosphorus	2819	26	II	
Phosphate Manufacturing	Elemental Phosphorus	2819	13	II	
Phosphate Manufacturing	Phosphorus Derived Chemicals	2819	26	II	
Phosphate Manufacturing	Phosphates	2819	26	II	
Phosphate Manufacturing	Sodium Phosphates	2819	26	II	
Phosphate Manufacturing	Sodium Phosphates	2819	13	II	
Plastics & Synthetics	Cellulosic Man-Made Fibers	2823	468	VI	
Plastics & Synthetics	Plastic Materials, Synthetic Resins, Nonvulcanizable Etc.	2821	468	VI	
Plastics & Synthetics	Synthetic Organic Fibers, Except Cellulosic	2824	468	VI	
Plastics Processing	Miscellaneous Plastics Products	3079	113	V	
Plastics Processing	Plastics Processing Without Contact Process Water	3079	11	II	
Plastics Processing	Solution Casting	3079	57	III	
Plastics Processing	Water Slurry Preforming Processes	3079	57	III	
Printing & Publishing	Pressroom - Water based Ink	2700	5	II	
Printing & Publishing	Printing & Publishing	2700	1	II	
Pulp, Paper & Paperboard	Alkaline Market Pulp	2611	67	III	
Pulp, Paper & Paperboard	Bleached Kraft - BCT Paper	2611	2631	67	III
Pulp, Paper & Paperboard	Bleached Kraft - Dissolving	2611	67	III	
Pulp, Paper & Paperboard	Bleached Kraft - Fine Papers	2611	67	III	
Pulp, Paper & Paperboard	Bleached Kraft Newsprint	2611	67	III	
Pulp, Paper & Paperboard	Chem-Mechanical Pulp-CMP	2611	67	III	
Pulp, Paper & Paperboard	Deink Pulp - fine Tissue	2611	67	III	
Pulp, Paper & Paperboard	Deink Pulp - News	2611	67	III	
Pulp, Paper & Paperboard	Dissolving Sulfite	2611	67	III	
Pulp, Paper & Paperboard	Groundwood-CMN	2611	2631	67	III
Pulp, Paper & Paperboard	Groundwood-Fine	2611	67	III	
Pulp, Paper & Paperboard	Miscellaneous Non-Wood Pulp	2611	67	III	
Pulp, Paper & Paperboard	Non-Integrated - fine	2621	67	III	
Pulp, Paper & Paperboard	Non-Integrated - filter & Non-Woven Paper	2621	67	III	
Pulp, Paper & Paperboard	Non-Integrated - Lightweight & Thin Paper	2621	67	III	
Pulp, Paper & Paperboard	Non-Integrated - Paperboard	2621	67	III	
Pulp, Paper & Paperboard	Non-Integrated - Specialty	2621	67	III	
Pulp, Paper & Paperboard	Non-Integrated - Tissue	2621	67	III	
Pulp, Paper & Paperboard	Paper Grade Sulfite	2611	67	III	
Pulp, Paper & Paperboard	Semi - Chemical	2611	2631	67	III
Pulp, Paper & Paperboard	Thermo-Mechanical Pulp	2611	67	III	
Pulp, Paper & Paperboard	Unbleached Kraft/Semi-Chemical X-Recovery	2611	2631	67	III
Pulp, Paper & Paperboard	Waste Paper - Board	2631	2661	67	III
Pulp, Paper & Paperboard	Waste Paper - Construction	2661	67	III	
Pulp, Paper & Paperboard	Waste Paper - Molded	2611	67	III	
Pulp, Paper & Paperboard	Waste Paper - Tissue	2611	67	III	
Rubber	Large-sized General Molded, Extruded & Fabr. Rubber Plants	3021	3041 3069 3293	10	II
Rubber	Latex foam	3069		10	II
Rubber	Latex-Dipped, Latex-Extruded & Latex Molded Goods	3021	3069	10	II
Rubber	Medium-sized General molded, Extruded & Fabr. Rubber Plants	3021	3041 3069 3293	10	II
Rubber	Pan, Dry Digestion, & Mechanical Reclaim	3031		100	V
Rubber	Small-sized General Molded, Extruded & Fabr. Rubber Plants	3021	3041 3069 3293	10	II
Rubber	Synthetic Crumb Rubber Prod. - Emulsion Polymerization	2822		10	II
Rubber	Synthetic Crumb Rubber Prod. - Solution Polymerization	2822		10	II

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)	Toxicity	
			Index	Group
Rubber	Synthetic Latex Rubber Production	2822	10	II
Rubber	Tire & Inner Tube Production	3011	10	II
Rubber	Met Digestion Reclam-	3031	100	V
Soaps & Detergents	Air-SO ₂ Sulfation & Sulfonation	2843	63	III
Soaps & Detergents	Chlorosulfonic Acid Sulfation	2843	63	III
Soaps & Detergents	Chlorosulfonic Acid Sulfation	2843	32	III
Soaps & Detergents	Fatty Acid Manufacturing by Fat Splitting	2841	63	III
Soaps & Detergents	Glycerine Concentration	2841	63	III
Soaps & Detergents	Glycerine Distillation	2841	63	III
Soaps & Detergents	Manufacturing of Bar Soaps	2841	63	III
Soaps & Detergents	Manufacturing of Bar Soaps	2841	32	III
Soaps & Detergents	Manufacturing of Detergent Bars & Cakes	2841	63	III
Soaps & Detergents	Manufacturing of Detergent Bars & Cakes	2841	32	III
Soaps & Detergents	Manufacturing of Drum Dried Detergents	2841	63	III
Soaps & Detergents	Manufacturing of Drum Dried Detergents	2841	32	III
Soaps & Detergents	Manufacturing of Dry Blended Detergents	2841	63	III
Soaps & Detergents	Manufacturing of Dry Blended Detergents	2841	32	III
Soaps & Detergents	Manufacturing of Liquid Soaps	2841 2842 2844	63	III
Soaps & Detergents	Manufacturing of Liquid Detergents	2841 2842	63	III
Soaps & Detergents	Manufacturing of Liquid Soaps	2841	32	III
Soaps & Detergents	Manufacturing of Liquid Detergents	2843	32	III
Soaps & Detergents	Manufacturing of Soap Flakes & Powders	2841	63	III
Soaps & Detergents	Manufacturing of Soap Flakes & Powders	2841	32	III
Soaps & Detergents	Manufacturing of Spray Dried Detergents	2841	63	III
Soaps & Detergents	Neutralization of Sulfuric Acid Esters & Sulfonic Acids	2843	63	III
Soaps & Detergents	Oleum Sulfonation & Sulfation	2843	63	III
Soaps & Detergents	Soap Manufacturing by Batch Kettle	2841	63	III
Soaps & Detergents	Soap Manufacturing by Fatty Acid Neutralization	2841	63	III
Soaps & Detergents	SO ₂ Solvent & Vacuum Sulfonation	2843	63	III
Soaps & Detergents	SO ₂ Solvent & Vacuum Sulfonation	2843	32	III
Soaps & Detergents	Sulfamic Acid Sulfation	2843	63	III
Soaps & Detergents	Sulfamic Acid Sulfation	2843	32	III
Steam Electric	Ash Pile Runoff	4911 4931	19	II
Steam Electric	Ash Transport Water	4911 4931	37	III
Steam Electric	Coal Pile Runoff	4911 4931	4	II
Steam Electric	Cooling Tower Blowdown	4911 4931	37	III
Steam Electric	Low Volume Wastes	4911 4931	37	III
Steam Electric	Metal Cleaning Wastes	4911 4931	4	II
Steam Electric	Once Through Cooling Water	4911 4931	37	III
Textile Mills	Apparel	2300	15	II
Textile Mills	Carpet Finishing	2271 2272 2279	152	V
Textile Mills	Cordage & Twine	2298	15	II
Textile Mills	Felt Manufacturing	2291	152	V
Textile Mills	Finishing	2231	152	V
Textile Mills	Grenge Mills	2211 2221 2231 2241	15	II
Textile Mills	Grenge Mills	2253 2271 2272 2281	15	II
Textile Mills	Grenge Mills	2282 2283	15	II
Textile Mills	Hosiery	2251 2252	152	V

TOXICITY INDEXES FOR INDUSTRIAL SUBCATEGORIES

Major Industry	Industry Subcategory	SIC Code(s)				Toxicity Index Group	
Textile Mills	Knit fabric finishing	2253	2254	2255	2256	152	V
Textile Mills	Knit fabric finishing	2257	2258	2259		152	V
Textile Mills	Nonwoven Manufacturing	2297				152	V
Textile Mills	Padding & Upholstery	2293				15	II
Textile Mills	Stock & Yarn Dyeing	2281	2282	2283	2284	152	V
Textile Mills	Wool Scouring	2299				152	V
Textile Mills	Woven fabric finishing	2211	2221	2241	2261	152	V
Textile Mills	Woven fabric finishing	2262	2269			152	V
Timber Products Processing	Barking	2661				0	II
Timber Products Processing	Hardboard - Dry Process	2499				0	II
Timber Products Processing	Hardwood Dimension & Flooring Mills	2426				0	II
Timber Products Processing	Insulation Board (2 subcategories)	2661				02	IV
Timber Products Processing	Millwork	2431				0	II
Timber Products Processing	Particleboard	2492				0	II
Timber Products Processing	Plywood	2435	2436			0	II
Timber Products Processing	Sawmills & Planing Mills	2421				0	II
Timber Products Processing	Special Products Sawmills, NEC	2429				0	II
Timber Products Processing	Veneer	2435	2436			0	II
Timber Products Processing	Wet Process Hardboard (2 subcategories)	2499				02	IV
Timber Products Processing	Wood Containers, NEC	2449				0	II
Timber Products Processing	Wood Kitchen Cabinets	2434				0	II
Timber Products Processing	Wood Preserving - Steam	2491				02	IV
Timber Products Processing	Wood Preserving - Boulton	2491				02	IV
Timber Products Processing	Wood Preserving - Inorganic	2491				0	II
Timber Products Processing	Wood Products, NEC	2499				0	II

All other industry types and subcategories not listed are assigned Group I

APPENDIX F

Classification of Major and Minor NPDES Industrial Permits

This appendix provides the classification of major and minor permits that is currently in use by the Agency's Office of Wastewater Enforcement and Compliance (OWEC). The classification uses a rating system that is based on assessment of six characteristics of a facility's discharge.

Classification of Major and Minor NPDES Industrial Permits

The Office of Wastewater Enforcement and Compliance designates an industrial discharger a major NPDES permit by applying a numerical permit rating system to each industrial permit. This rating system assigns points to an individual permittee based on an assessment of six characteristics of the permittee's discharge. The six characteristics or "rating criteria" are:

- 1) Toxic Pollutant Potential
- 2) Flow/Streamflow Volume
- 3) Conventional Pollutants
- 4) Public Health Impact
- 5) Water Quality Factors
- 6) Proximity to Near Coastal Waters

To rate an industrial permit, an NPDES Industrial Permit Rating Worksheet must be filled out. Attached is an example of a worksheet which is filled out by evaluating the current permit application, the permit itself, and other monitoring forms kept in the individual permit file. The sum of these weighted point values is the permit's ranking. The point totals range from zero to a maximum of 265.

To generate the major industrial permit lists for each NPDES State and EPA Region, the data for each permittee is loaded into an OWEC computer system. The numbered boxes on the worksheet correlate to specific point values programmed into the computer. The computer adds the points for each criteria for each permit and arranges each permit by State in descending numerical order.

Currently, a permit assigned a point total of 80 points or higher is designated a major permit. All permits below 80 points are designated minor permits. This is an artificial cutoff point but one which maintains the total number of majors at a level consistent with the total number of major permits originally designated major during the first round of per-

mitting. It also includes most permits which the NPDES permitting authorities collectively believe should be considered major dischargers.

In addition, each Region, in consultation with their NPDES States, is allowed to designate a certain number of their minor permits "discretionary" major permits. These are permits which the region or state believes should be accorded major status but for one reason or another did not achieve sufficient points to be rated a major permit. A "discretionary" is assigned an additional arbitrary 500 points to its raw score to give it major status and to flag it as a discretionary major permit. There are 576 discretionary majors at this time.

Also, if the facility is a steam electric power plant (SIC=4911) with a power output of 500 MW or greater (not using a cooling pond/lake), or that is a nuclear power plant, or that has a cooling water discharge greater than 25 percent of the receiving stream's 7Q10 flow rate, the facility is given a score of 600 automatically. Likewise, an automatic score of 700 is given to municipal separate storm sewers serving a population greater than 100,000.

Approximately 49,000 industrial permits have been rated. No secondary minor permits were rated because they would fail to qualify as major permits almost 100% of the time.

There are currently 3,803 major NPDES industrial permits. A Regional breakdown is as follows:

	<u>Majors*</u>	
I	339	(9%)
II	435	(11%)
III	429	(11%)
IV	762	(20%)
V	533	(14%)
VI	512	(14%)
VII	122	(3%)
VIII	179	(5%)
IX	138	(4%)
X	<u>354</u>	(9%)
TOTAL	3,803	(100%)

* "Majors" column shows permittees classified as majors. The revisions to the classification system took effect July 1991.

Of the 3,803 current major industrial permits, 2,731 are state-issued permits and 1,072 are EPA-issued permits.

NPDES Permit Rating Work Sheet

- Regular Addition
- Discretionary Addition
- Score change, but no status change
- Deletion

NPDES No.: _____

Facility Name: _____

City: _____

Receiving Water: _____

Reach Number: _____

Is this facility a steam electric power plant (SIC=4911) with one or more of the following characteristics?

1. Power output 500 MW or greater (not using a cooling pond/lake)
2. A nuclear power plant
3. Cooling water discharge greater than 25% of the receiving stream's 7Q10 flow rate

YES; score is 600 (stop here) NO (continue)

Is this permit for a municipal separate storm sewer serving a population greater than 100,000?

- YES; score is 700 (stop here)
 NO (continue)

FACTOR 1: Toxic Pollutant Potential

PCS SIC Code: _____ Primary SIC Code: _____

Other SIC Codes: _____

Industrial Subcategory Code: _____ (Code 000 if no subcategory)

Determine the Toxicity potential from Appendix A. Be sure to use the TOTAL toxicity potential column and check one)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
<input type="checkbox"/> No process waste streams	0	0	<input type="checkbox"/> 3.	3	15	<input type="checkbox"/> 7.	7	35
<input type="checkbox"/> 1.	1	5	<input type="checkbox"/> 4.	4	20	<input type="checkbox"/> 8.	8	40
<input type="checkbox"/> 2.	2	10	<input type="checkbox"/> 5.	5	25	<input type="checkbox"/> 9.	9	45
			<input type="checkbox"/> 6.	6	30	<input type="checkbox"/> 10.	10	50

Code Number Checked: _____

Total Points Factor 1: _____

FACTOR 2: Flow/Stream Flow Volume *(Complete either Section A or Section B; check only one)*

Section A —Wastewater Flow Only Considered

Wastewater Type (See Instructions)	Code	Points
Type I: Flow < 5 MGD	<input type="checkbox"/> 11	0
Flow 5 to 10 MGD	<input type="checkbox"/> 12	10
Flow >10 to 50 MGD	<input type="checkbox"/> 13	20
Flow > 50 MGD	<input type="checkbox"/> 14	30
Type II: Flow <1 MGD	<input type="checkbox"/> 21	10
Flow 1 to 5 MGD	<input type="checkbox"/> 22	20
Flow >5 to 10 MGD	<input type="checkbox"/> 23	30
Flow >10 MGD	<input type="checkbox"/> 24	50
Type III: Flow <1 MGD	<input type="checkbox"/> 31	0
Flow 1 to 5 MGD	<input type="checkbox"/> 32	10
Flow >5 to 10 MGD	<input type="checkbox"/> 33	20
Flow >10 MGD	<input type="checkbox"/> 34	30

Section B —Wastewater and Stream Flow Considered

Wastewater Type (See Instructions)	Percent of Instream Wastewater Concentration at Receiving Stream Low Flow	Code	Points
TYPE I/II:	< 10%	<input type="checkbox"/> 41	0
	≥ 10% to <50%	<input type="checkbox"/> 42	10
	≥ 50%	<input type="checkbox"/> 43	20
Type II:	< 10%	<input type="checkbox"/> 51	0
	≥ 10% to <50%	<input type="checkbox"/> 52	20
	≥ 50%	<input type="checkbox"/> 53	30

Code Checked from Section A or B: _____

Total Points Factor 2: _____

APPENDIX G

Secondary NPDES Facilities with Toxic Discharge

This appendix provides a listing of NPDES facilities classified as secondary with a significant potential for toxics in their discharge.

**SECONDARY NPDES FACILITIES WITH
SIGNIFICANT POTENTIAL FOR TOXICS**

SIC Code	Industrial Category	No. of Facilities
0711	Soil preparation services	4
0721	Crop planting and protection	1
0729	General crop services	1
1081	Metal mining services	7
1389	Oil and gas field services	136
1475	Phosphate rock	33
2449	Wood containers	4
2492	Particle board	21
2511	Wood household furniture, except uph.	40
2512	Wood household furniture, uph.	13
2514	Metal household furniture	8
2517	Wood, TV, radio, phonograph, and sewing machine cabinets	1
2519	Household furniture	2
2521	Wood office furniture	7
2522	Metal office furniture	15
2531	Public building and related furniture	3
2541	Wood partitions, shelving, and lockers	5
2542	Metal partitions, shelving, and lockers	7
2789	Book binding and related work	1
2842	Specialty cleaning, polishing, and sanitizing	31
2843	Surface active agents	11
2844	Perfumes, cosmetics, and other toiletry preparations	28
2870	Agricultural chemicals	4
2873	Nitrogenous fertilizers	56
2874	Phosphate fertilizers	33
2992	Lubricating oils and greases	49
2999	Products of petroleum - coal	22
3229	Pressed and blown glass, NEC	65
3296	Mineral wool	19
3999	Manufacturing industries, NEC	79
4011	Railroads and line-haul operations	238
4013	Railroads and switching terminal services	83
4171	Terminal and joint terminal maintenance facilities	30
4172	Bus service facilities	81

**SECONDARY NPDES FACILITIES WITH
SIGNIFICANT POTENTIAL FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
4212	Local trucking without storage	29
4231	Trucking terminal facilities	43
4463	Marine cargo handling	82
4469	Water transportation	91
4582	Airport and flying fields	68
4742	Rental of railroad cars, including car cleaning	5
4789	Services incidental to transportation, NEC	15
4953	Refuse systems	387
5161	Chemicals and allied products - wholesale	55
5171	Petroleum bulk stations	1,009
5172	Petroleum products	110
5541	Gasoline service stations	410
7261	Funeral service and crematoriums	3
7391	Research and development laboratories	104
7395	Photo-finishing laboratories	22
7538	General auto repair shop	47
7539	Automotive repair shops	10
7699	Repair shops	41
7819	Services allied to motion pictures	2
9711	National security	484
	TOTAL	<u>4,155</u>

Source: Permit Compliance System, December 1987.

APPENDIX H

Secondary NPDES Facilities With Effluent Guidelines

This appendix provides a listing of NPDES facilities classified as secondary with effluent guidelines for conventional or nontoxic pollutants.

**SECONDARY NPDES FACILITIES WITH
EFFLUENT GUIDELINES**

SIC Code	Industrial Category	No. of Facilities
0211	Beef cattle feedlots	713
0213	Hogs	115
0214	Sheep and goats	12
0219	General livestock	3
0241	Dairy farms	88
0251	Broiler, fryer, and roaster chickens	7
0252	Chicken eggs	27
0253	Turkey and turkey eggs	10
0259	Poultry and eggs	30
0272	Horses and other equines	2
0291	General farms	4
1311	Crude petroleum and natural gas	3,749
1381	Drilling oil and gas wells	102
1382	Oil and gas exploration services	22
1411	Dimension stone	61
1422	Crushed and broken limestone	689
1423	Crushed and broken granite	64
1429	Crushed and broken stone, NEC	126
1442	Construction sand and gravel	499
1446	Industrial sand	45
1452	Bentonite	5
1453	Fire clay	31
1454	Fuller earth	7
1455	Kaolin and ball clay	83
1459	Clay and related minerals, NEC	24
1472	Barite	11
1473	Fluorspar	9
1474	Potash, soda, and borate minerals	3
1476	Rock salt	5
1477	Sulfur	7
1479	Chemical and fertilizer mining, NEC	3
1492	Gypsum	8
1496	Talc, soapstone, and pyrophyllite	10
1499	Nonmetallic minerals, NEC	63
2011	Meat packing plants	245
2013	Sausages and other prepared meats	53
2016	Poultry dressing plants	79
2017	Poultry and egg processing	22
2021	Creamery butter	35
2022	Cheese, natural and processed	131
2023	Condensed and evaporated milk	49
2024	Ice cream and frozen desserts	21
2026	Fluid milk	118

**SECONDARY NPDES FACILITIES WITH
EFFLUENT GUIDELINES
(continued)**

SIC Code	Industrial Category	No. of Facilities
2032	Canned specialties	29
2033	Canned fruits and vegetables	245
2034	Dehydrated fruits, vegetables, soups	9
2035	Pickles, sauces, and salad dressing	31
2037	Frozen fruits and vegetables	62
2038	Frozen specialties	17
2041	Flour and other grain mill products	14
2043	Cereal breakfast foods	10
2044	Rice milling	3
2046	Wet corn milling	22
2047	Dog, cat, and other pet food	26
2048	Prepared feeds	47
2061	Raw cane sugar	35
2062	Cane sugar refining	17
2063	Beet sugar	28
2077	Animal and marine fats and oils	56
2091	Canned and cured seafood	123
2092	Fresh or frozen packaged fish	479
2099	Food preparations	55
2591	Drapery hardware and window blinds and shades	1
2599	Furniture and fixtures, NEC	3
2875	Fertilizers, mixing only	7
3211	Flat glass	24
3221	Glass containers	54
3231	Products of purchased glass	30
3241	Cement, hydraulic	121
3273	Ready-mix concrete	136
3274	Lime	39
3281	Cut stone and stone products	86
3292	Asbestos products	16
3295	Minerals, ground or treated	72
5143	Dairy products	12
5422	Freezer and locker meat provisioners	0
5423	Meat and fish (seafood) markets	14
7534	Tire retreading and repair shops	4
8062	General medical and surgical hospitals	149
8063	Psychiatric hospitals	56
8069	Specialty hospitals	10
8922	Noncommercial educational, scientific, and research organizations	<u>33</u>
TOTAL		9,565

Source: Permit Compliance System, December 1987.

APPENDIX I

Secondary NPDES Facilities With Permit Limitations for Toxics

This appendix provides a listing of NPDES facilities classified as secondary with permit limitations for toxics including ammonia and chlorine.

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS**

SIC Code	Industrial Category	No. of Facilities
<i>Agricultural Production - Crops</i>		
0116	Soybeans	3
0181	Ornamental floriculture and nursery products	6
0189	Horticulture specialties, NEC	1
<i>Agricultural Production - Livestock</i>		
0279	Animal specialties, NEC	54
<i>Agricultural Services</i>		
0742	Veterinary services for animal specialties	8
0752	Animal specialty services	3
<i>Forestry</i>		
0821	Forest nurseries and tree seed gathering and extracting	3
<i>Fishing, Hunting, and Trapping</i>		
0913	Shellfish	35
0921	Fish hatcheries and preserves	502
<i>Oil and Gas Extraction</i>		
1321	Natural gas liquids	429
<i>Building and Construction</i>		
1521	General contractors - single family houses	91
1522	General contractors - residential buildings, other than single family	20
1531	Operative builders	34
1541	General contractors - industrial buildings and warehouses	21
1542	General contractors - nonresidential buildings	32
<i>Construction Other than Building Construction</i>		
1611	Highway and street construction	16
1622	Bridge, tunnel, and elevated highway construction	22
1623	Water, sewer, pipe line, and communication and power line construction	38
1629	Heavy construction, NEC	123

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
<i>Construction Special Trade Contractors</i>		
1731	Electrical work	4
1781	Water well drilling	2
1799	Special trade contractors, NEC	49
<i>Food and Kindred Products</i>		
2051	Bread and other bakery products	8
2052	Cookies and crackers	1
2065	Candy and other confectionary products	8
2067	Chewing gum	2
2075	Soybean oil mills	30
2076	Vegetable oil mills, except corn, cottonseed, and soybean	8
2079	Shortening, table oils, margarine, and other fats and oils, NEC	11
2082	Malt beverages	34
2083	Malt	10
2084	Wines, brandy, and brandy spirits	18
2085	Distilled, rectified, and blended liquors	38
2086	Bottled and canned soft drinks and carbonated waters	52
2087	Flavoring extracts and flavoring syrups, NEC	21
2090	Miscellaneous food preparations	7
2095	Roasted coffee	1
2097	Manufactured ice	26
<i>Tobacco Manufacturers</i>		
2100	Tobacco manufacturers	1
2111	Cigarettes	8
2121	Cigars	3
2131	Tobacco and snuff	3
<i>Lumber and Wood Products, Except Furniture</i>		
2451	Mobile homes	10
<i>Stone, Clay, Glass, and Concrete Products</i>		
3251	Brick and structural clay tile	21
3253	Ceramic wall and floor tile	25
3255	Clay refractories	39
3262	Vitreous china table and kitchen articles	9
3264	Porcelain electrical supplies	11

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
<i>Stone, Clay, Glass, and Concrete Products (continued)</i>		
3269	Pottery products, NEC	11
3271	Concrete block and brick	10
3272	Concrete products, except block and brick	56
3275	Gypsum products	24
3291	Abrasive products	16
3297	Nonclay refractories	21
3299	Nonmetallic mineral products, NEC	8
<i>Railroad Transportation</i>		
4041	Railway express services	1
<i>Local and Suburban Transit and Passenger Transportation</i>		
4111	Local and suburban transit	10
4119	Local passenger transportation, NEC	1
4131	Intercity and rural highway passenger transportation	2
<i>Motor Freight Transportation and Warehousing</i>		
4213	Trucking, except local	18
4214	Local trucking with storage	11
4221	Farm product warehousing and storage	13
4222	Refrigerated goods warehousing and storage	40
4225	General warehousing and storage	41
4226	Special warehousing and storage, NEC	109
<i>U.S. Postal Service</i>		
4311	U.S. postal service	6
<i>Water Transportation</i>		
4411	Deep sea foreign transportation	2
4431	Great Lakes - St. Lawrence Seaway transportation	2
<i>Transportation by Air</i>		
4511	Air transportation, certificated carriers	11
4521	Air transportation, noncertificated carriers	5
4583	Airport terminal services	8

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
<i>Pipe Lines, Except Natural Gas</i>		
4612	Crude petroleum pipe lines	38
4613	Refined petroleum pipe lines	64
4619	Pipe lines, NEC	7
<i>Transportation Services</i>		
4782	Inspection and weighing services connected with transportation	3
4783	Packing and crating	7
4784	Fixed facilities for motor vehicle transportation, NEC	86
<i>Communication</i>		
4811	Telephone communication, wire or radio	25
4899	Communication services, NEC	6
<i>Electric, Gas, and Sanitary Services</i>		
4922	Natural gas transmission	393
4923	Natural gas transmission and distribution	11
4925	Gas production and/or distribution	17
4939	Combination utilities, NEC	36
4941	Water supply	2,434
4959	Sanitary services, NEC	69
4961	Steam supply	67
<i>Wholesale Trade - Durable Goods</i>		
5014	Tires and tubes	1
5051	Metals service centers and offices	19
5052	Coal and other minerals - wholesale	18
5063	Electrical apparatus and equipment	6
5065	Electronic parts and equipment	4
5081	Commercial machines and equipment	5
5082	Construction and mining machinery and equipment	17
5084	Industrial machinery and equipment	18
5092	Miscellaneous durable goods	26
5093	Scrap and waste materials - wholesale	35

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
<i>Wholesale Trade - Nondurable Goods</i>		
5111	Printing and writing paper	1
5113	Industrial and personal service paper	4
5141	Groceries, general line	9
5142	Frozen foods	8
5146	Fish and seafood	43
5147	Meats and meat products	10
5191	Farm supplies	10
5199	Nondurable goods, NEC	15
<i>Building Materials, Hardware, Garden Supply, and Mobile Home Dealers</i>		
5251	Hardware stores	3
<i>General Merchandise Stores</i>		
5311	Department stores	11
5331	Variety stores	7
5399	Miscellaneous general merchandise stores	7
<i>Food Stores</i>		
5411	Grocery stores	52
5441	Candy, nut, and confectionary stores	3
5462	Retail bakeries	3
<i>Automotive Dealers and Gasoline Service Stations</i>		
5511	Motor vehicle dealers (new and used)	33
<i>Apparel and Accessory Stores</i>		
5611	Men's and boys' clothing stores	3
<i>Furniture, Home Furnishings, and Equipment Stores</i>		
5719	Miscellaneous home furnishings	3
<i>Eating and Drinking Places</i>		
5812	Eating places	302
5813	Drinking places	10

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
<i>Miscellaneous Retail</i>		
5921	Liquor stores	6
5941	Sporting goods stores and bicycle shops	3
5946	Camera and photographic supply stores	1
5947	Gift, novelty, and souvenir shops	2
5999	Miscellaneous retail stores, NEC	7
<i>Banking</i>		
6022	State banks, members of FRS	9
6023	State banks, not members of FRS	1
6025	National banks, members of FRS	7
<i>Credit Agencies Other than Banks</i>		
6162	Mortgage bankers and loan correspondents	1
<i>Insurance</i>		
6311	Life insurance	9
6324	Hospital and medical service plans	1
6371	Pension, health, and welfare funds	3
<i>Insurance Agency, Brokers, and Service</i>		
6411	Insurance agency, brokers, and service	5
<i>Real Estate</i>		
6512	Operators of nonresidential buildings	466
6513	Operators of apartment buildings	478
6514	Operators of dwellings other than apartment buildings	690
6515	Operators of residential mobile home sites	1,824
6517	Lessors of railroad property	2
6519	Lessors of real property, NEC	6
6531	Real estate agents and managers	37
6552	Subdividers and developers, except cemeteries	390
<i>Holding and Other Investment Offices</i>		
6732	Educational, religious, and charitable trusts	2

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
<i>Lodging Places</i>		
7011	Hotels, motels, and tourist courts	658
7021	Rooming and boarding houses	18
7030	Camps and trailering parks	2
7032	Sporting and recreational camps	351
7033	Trailering parks and camp sites for transients	398
7041	Organization hotels and lodging houses	48
<i>Personal Services</i>		
7212	Garment pressing and agents for laundries and dry cleaners	3
7249	Barber shops	1
7299	Miscellaneous personal services	110
<i>Business Services</i>		
7374	Data processing services	3
7392	Management, consulting, and public relations services	9
7397	Commercial testing laboratories	10
7399	Business services, NEC	91
<i>Automotive Repair, Services, and Garages</i>		
7512	Passenger car rental and leasing	3
7513	Truck rental and leasing	8
7531	Top and body repair shops	2
<i>Miscellaneous Repair Services</i>		
7629	Electrical and electronic repair shops, NEC	5
<i>Motion Pictures</i>		
7833	Drive-in motion picture theaters	3
<i>Amusement and Recreational Services, Except Motion Pictures</i>		
7932	Billiard and pool establishments	2
7933	Bowling alleys	11
7941	Professional sports clubs and promoters	3
7948	Racing, including track operations	16

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
<i>Amusement and Recreational Services, Except Motion Pictures (continued)</i>		
7992	Public golf courses	7
7996	Amusement parks	17
7997	Membership sports and recreation clubs	183
7999	Amusement and recreation services, NEC (including swimming pools)	554
<i>Health Services</i>		
8011	Offices of physicians	10
8051	Skilled nursing care facilities	167
8059	Nursing and personal care facilities, NEC	80
8071	Medical laboratories	13
8081	Outpatient care facilities	21
<i>Education Services</i>		
8211	Elementary and secondary schools	2,727
8221	Colleges, universities, and professional schools	136
8222	Junior colleges and technical institutes	35
8231	Libraries and information centers	5
8241	Correspondence schools	2
8244	Business and secretarial schools	1
8249	Vocational schools, NEC	32
8299	Schools and education services, NEC	27
<i>Social Services</i>		
8321	Individual and family social services	23
8331	Job training and vocational rehabilitation services	9
8351	Child day-care services	28
8361	Residential care	137
8399	Social services, NEC	6
<i>Museums, Art Galleries, Botanical, and Zoological Gardens</i>		
8411	Museum and art galleries	12
8421	Arboreta, botanical, and zoological gardens	12

**SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)**

SIC Code	Industrial Category	No. of Facilities
<i>Membership Organizations</i>		
8641	Civic, social, and fraternal associations	33
8661	Religious organizations	159
8699	Membership organizations, NEC	5
<i>Private Households</i>		
8811	Private households	221
<i>Miscellaneous Services</i>		
8911	Engineering, architectural, and surveying services	15
8999	Services, NEC	18
<i>Executive, Legislative, and General Government, Except Finance</i>		
9111	Executive services	13
9121	Legislative bodies	3
9199	General government, NEC	18
<i>Justice, Public Order, and Safety</i>		
9221	Police protection	7
9222	Legal counsel and prosecution	1
9223	Correctional institutions	217
9224	Fire protection	17
<i>Administration of Human Resources Programs</i>		
9451	Administration of veteran's affairs, except health and insurance	1
<i>Administration of Environmental Quality and Housing Programs</i>		
9511	Air and water resource and solid waste management	58
9512	Land, mineral, wildlife, and forest conservation	181
9531	Administration of housing programs	29

SECONDARY NPDES FACILITIES
WITH PERMIT LIMITATIONS FOR TOXICS
(continued)

SIC Code	Industrial Category	No. of Facilities
<i>Administration of Economic Programs</i>		
9611	Administration of general economic programs	4
9621	Regulation and administration of transportation programs	114
9641	Regulation of agricultural marketing and commodities	2
9661	Space research and technology	4
	TOTAL	17,345

Source: Permit Compliance System, December 1987.

APPENDIX J

Secondary NPDES Facilities Potential *De Minimis*

This appendix provides a listing of NPDES facilities (secondary) classified as potential *de minimis*.

**SECONDARY NPDES FACILITIES
POTENTIAL DE MINIMIS**

SIC Code	Industrial Category	No. of Facilities
<i>Agricultural Production - Crops</i>		
0112	Rice	1
0115	Corn	1
0119	Cash grains, NEC	3
0131	Cotton	1
0132	Tobacco	1
0133	Sugar crops	2
0134	Irish potatoes	1
0161	Vegetables and melons	4
0171	Berry crops	3
0175	Deciduous tree fruits	1
0179	Fruit and tree nuts, NEC	1
0182	Food crops grown under cover	6
0191	General farms, primarily crop	10
<i>Agricultural Production - Livestock</i>		
0212	Beef cattle, except feedlots	37
0254	Poultry hatcheries	21
0271	Fur-bearing animals and rabbits	1
<i>Agricultural Services</i>		
0723	Crop preparation services for market, except cotton ginning	135
0751	Livestock services	9
0762	Farm management services	3
0781	Landscape counseling and planning	1
<i>Forestry</i>		
0849	Gathering of forest products, NEC	2
0851	Forestry services	5
<i>Fishing, Hunting, and Trapping</i>		
0912	Finfish	9
0919	Miscellaneous marine products	2
0971	Hunting and trapping, and game propagation	3
<i>Mining of Nonmetallic Minerals</i>		
1481	Nonmetallic minerals (except fuels) services	7

**SECONDARY NPDES FACILITIES
POTENTIAL DE MINIMIS**

SIC Code	Industrial Category	No. of Facilities
<i>Construction Special Trade Contractors</i>		
1711	Plumbing, heating (except electric), and air conditioning	4
1721	Painting, paper hanging, and decorating	2
1741	Masonry, stone setting, and other stonework	1
1752	Floor laying and other floorwork, NEC	2
1771	Concrete work	3
1791	Structural steel erection	3
1794	Excavating and foundation work	5
1796	Installation or erection of building equipment, NEC	2
<i>Food and Kindred Products</i>		
2045	Blended and prepared flour	1
2066	Chocolate and cocoa products	2
2069	Sugar and confectionary products	1
2071	Fats and oils	1
2074	Cottonseed oil mills	15
2080	Beverage	1
2098	Macaroni, spaghetti, vermicelli, and noodles	2
<i>Tobacco Manufacturers</i>		
2141	Tobacco stemming and redrying	6
<i>Lumber and Wood Products, Except Furniture</i>		
2448	Wood pallets and skids	1
2452	Prefabricated wood buildings and components	1
<i>Furniture and Fixtures</i>		
2515	Mattresses and bedsprings	3
<i>Stone, Clay, Glass, and Concrete Products</i>		
3259	Structural clay products, NEC	5
3261	Vitreous china plumbing fixtures	5
3263	Fire earthenware table and kitchen articles	2

**SECONDARY NPDES FACILITIES
POTENTIAL DE MINIMIS**

SIC Code	Industrial Category	No. of Facilities
<i>Local and Suburban Transit and Passenger Transportation</i>		
4142	Passenger transportation charter service, except local	1
4151	School buses	4
<i>Motor Freight Transportation and Warehousing</i>		
4224	Household goods warehousing and storage	2
<i>Water Transportation</i>		
4421	Transportation to and between noncontiguous territories	1
4441	Transportation on rivers and canals	4
4452	Ferries	3
4453	Lighterage	2
4454	Towing and tugboat service	2
4459	Local water transportation, NEC	1
4462	Water transportation services	1
4464	Canal operation	5
<i>Transportation Services</i>		
4712	Freight forwarding	1
4722	Arrangement of passenger transportation	2
4723	Arrangement of transportation of freight and cargo	2
<i>Communication</i>		
4832	Radio broadcasting	1
4833	Television broadcasting	2
4841	Cable and other pay television services	1
<i>Electric, Gas, and Sanitary Services</i>		
4924	Natural gas distribution	6
4932	Gas and other services combined	8
4971	Irrigation systems	51

**SECONDARY NPDES FACILITIES
POTENTIAL DE MINIMIS**

SIC Code	Industrial Category	No. of Facilities
<i>Wholesale Trade - Durable Goods</i>		
5012	Automobiles and other motor vehicles	4
5013	Automotive parts and supplies	4
5023	Home furnishings	1
5031	Lumber, plywood, and millwork	1
5039	Construction materials, NEC	59
5041	Sporting and recreational goods and supplies	1
5074	Plumbing and heating equipment and supplies	3
5078	Refrigeration equipment and supplies	3
5083	Farm and garden machinery and equipment	7
5085	Industrial supplies	7
5086	Professional equipment and supplies	1
5087	Service establishment equipment and supplies	4
5088	Transportation equipment and supplies	1
5099	Durable goods, NEC	4
<i>Wholesale Trade - Nondurable Goods</i>		
5112	Stationery supplies	3
5122	Drugs, drug proprietaries, and druggist sundries	2
5134	Notions and other dry goods	1
5144	Poultry and poultry products	3
5148	Fresh fruits and vegetables	10
5149	Groceries and related products, NEC	21
5153	Grain	13
5154	Livestock	34
5159	Farm product raw materials, NEC	3
5181	Beer and ale	1
5182	Wines and distilled alcoholic beverages	2
5198	Paints, varnishes, and supplies	1
<i>Building Materials, Hardware, Garden Supply, and Mobile Home Dealers</i>		
5211	Lumber and other building materials dealers	29
5231	Paint, glass, and wallpaper stores	1
5261	Retail nurseries, lawn, and garden supply stores	2
5271	Mobile home dealers	13
<i>Food Stores</i>		
5431	Fruit stores and vegetable markets	1
5451	Dairy products stores	3
5499	Miscellaneous food stores	5

**SECONDARY NPDES FACILITIES
POTENTIAL DE MINIMIS**

SIC Code	Industrial Category	No. of Facilities
<i>Automotive Dealers and Gasoline Service Stations</i>		
5521	Motor vehicle dealers (used only)	1
5531	Auto and home supply stores	2
5551	Boat dealers	2
5571	Motorcycle dealers	1
<i>Apparel and Accessory Stores</i>		
5651	Family clothing stores	2
5661	Shoe stores	1
<i>Furniture, Home Furnishings, and Equipment Stores</i>		
5712	Furniture stores	4
<i>Miscellaneous Retail</i>		
5912	Drug stores and proprietary stores	2
5931	Used merchandise stores	6
5944	Jewelry stores	1
5961	Mail order houses	1
5963	Direct selling establishments	2
5982	Fuel and ice dealers	16
5983	Fuel oil dealers	20
5984	Liquified petroleum gas dealers	2
5992	Florists	1
<i>Banking</i>		
6011	Federal reserve banks	1
6026	National banks, not members of FRS	1
6032	Mutual savings banks, members of FRS	1
6044	State nondeposit trust companies	1
6059	Related banking functions, NEC	1
<i>Credit Agencies Other than Banks</i>		
6122	Federal savings and loan associations	3
6123	State savings and loan associations	3
6159	Miscellaneous business credit institutions	4

**SECONDARY NPDES FACILITIES
POTENTIAL DE MINIMIS**

SIC Code	Industrial Category	No. of Facilities
<i>Security and Commodity Brokers and Services</i>		
6211	Security brokers, dealers, and flotation companies	6
<i>Insurance</i>		
6321	Accident and health insurance	2
6331	Fire, marine, and casualty insurance	3
6361	Title insurance	1
<i>Real Estate</i>		
6553	Cemetery subdividers and developers	1
<i>Combinations of Real Estate, Insurance, Loans, and Law Offices</i>		
6611	Combinations of real estate, insurance, loans, and law offices	1
<i>Holding and Other Investment Offices</i>		
6711	Holding offices	2
<i>Personal Services</i>		
7231	Beauty shops	1
<i>Business Services</i>		
7333	Commercial photography, art, and graphics	1
7349	Cleaning and maintenance services, NEC	1
7372	Computer programming and other software services	1
7379	Computer-related services, NEC	1
7394	Equipment rental and leasing services	14
<i>Automotive Repair, Services, and Garages</i>		
7519	Utility trailer and recreational vehicle rental	14
7523	Parking lots	2
7525	Parking structures	4
7549	Automotive services, except repair and car washes	9

**SECONDARY NPDES FACILITIES
POTENTIAL DE MINIMIS**

SIC Code	Industrial Category	No. of Facilities
<i>Miscellaneous Repair Services</i>		
7623	Refrigeration and air conditioning service and repair shops	1
7692	Welding repair	5
7694	Armature rewinding shops	2
<i>Motion Pictures</i>		
7814	Motion picture and tape production for television	3
7832	Motion picture theaters, except drive-ins	1
<i>Amusement and Recreation Services, Except Motion Pictures</i>		
7911	Dance halls, studios, and schools	3
7922	Theatrical producers and miscellaneous services	1
7929	Entertainers and entertainment groups	2
<i>Health Services</i>		
8021	Offices of dentists	2
8049	Offices of health practitioners, NEC	1
8091	Health and allied services, NEC	8
<i>Legal Services</i>		
8111	Legal services	1
<i>Education Services</i>		
8243	Data processing schools	1
<i>Membership Organizations</i>		
8611	Business associations	2
8621	Professional membership organizations	2
<i>Justice, Public Order, and Safety</i>		
9211	Courts	6
9229	Public order and safety, NEC	3

**SECONDARY NPDES FACILITIES
POTENTIAL DE MINIMIS**

SIC Code	Industrial Category	No. of Facilities
<i>Administration of Human Resources Programs</i>		
9411	Administration of educational programs	1
9431	Administration of public health programs	7
9441	Administration of social, manpower, and income maintenance programs	2
<i>Administration of Environmental Quality and Housing Programs</i>		
9532	Administration of urban planning and rural development	4
<i>Administration of Economic Programs</i>		
9631	Regulation and administration of utilities	4
9651	Regulation, licensing, and inspection of miscellaneous commercial sectors	2
TOTAL		<u>893</u>

Source: Permit Compliance System, December 1987.

APPENDIX K

State NPDES Program Status

This appendix provides a summary of the States approved to issue permits under the standard NPDES program.

STATE NPDES PROGRAM STATUS

9/30/91

	Approved State NPDES permit program	Approved to regulate Federal facilities	Approved State pretreatment program	Approved general permits program
Alabama	10/19/79	10/19/79	10/19/79	06/26/91
Arkansas	11/01/86	11/01/86	11/01/86	11/01/86
California	05/14/73	05/05/78	09/22/89	09/22/89
Colorado	03/27/75	--	--	03/04/83
Connecticut	09/26/73	01/09/89	06/03/81	--
Delaware	04/01/74	--	--	--
Georgia	06/28/74	12/08/80	03/12/81	01/28/91
Hawaii	11/28/74	06/01/79	08/12/83	09/30/91
Illinois	10/23/77	09/20/79	--	01/04/84
Indiana	01/01/75	12/09/78	--	04/02/91
Iowa	08/10/78	08/10/78	06/03/81	--
Kansas	06/28/74	08/28/85	--	--
Kentucky	09/30/83	09/30/83	09/30/83	09/30/83
Maryland	09/05/74	11/10/87	09/30/85	09/30/91
Michigan	10/17/73	12/09/78	06/07/83	--
Minnesota	06/30/74	12/09/78	07/16/79	12/15/87
Mississippi	05/01/74	01/28/83	05/13/82	09/27/91
Missouri	10/30/74	06/26/79	06/03/81	12/12/85
Montana	06/10/74	06/23/81	--	04/29/83
Nebraska	06/12/74	11/02/79	09/07/84	07/20/89
Nevada	09/19/75	08/31/78	--	--
New Jersey	04/13/82	04/13/82	04/13/82	04/13/82
New York	10/28/75	06/13/80	--	--
North Carolina	10/19/75	09/28/84	06/14/82	09/06/91
North Dakota	06/13/75	01/22/90	--	01/22/90
Ohio	03/11/74	01/28/83	07/27/83	--
Oregon	09/26/73	03/02/79	03/12/81	02/23/82
Pennsylvania	06/30/78	06/30/78	--	08/02/91
Rhode Island	09/17/84	09/17/84	09/17/84	09/17/84
South Carolina	06/10/75	09/26/80	04/09/82	--
Tennessee	12/28/77	09/30/86	08/10/83	04/18/91
Utah	07/07/87	07/07/87	07/07/87	07/07/87
Vermont	03/11/74	--	03/16/82	--
Virgin Islands	06/30/76	--	--	--
Virginia	03/31/75	02/09/82	04/14/89	05/20/91
Washington	11/14/73	--	09/30/86	09/26/89
West Virginia	05/10/82	05/10/82	05/10/82	05/10/82
Wisconsin	02/04/74	11/26/79	12/24/80	12/19/86
Wyoming	01/30/75	05/18/81	--	09/24/91
TOTALS	39	34	27	28

Number of Fully Authorized Programs (Federal Facilities, Pretreatment, General Permits) = 20

APPENDIX L

General Permit Information

State General Permit Program Status L-1
Existing General Permit Classification Categories L-3

This appendix provides a summary of State NPDES and general permit authority with the number of general permits and discharges under general permits, as well as a listing of categories currently covered by general permits.

State General Permit Program Status			
	Discharges Covered Under General Permits	Number of General Permits	
		EPA	STATE
<u>NPDES APPROVED STATES</u>			
*Alabama			
*Arkansas			
*California			
*Colorado	236		3
*Georgia			
*Hawaii			
*Illinois			
*Indiana			
*Kentucky	3,142 (includes 3,100 coal mines)		2
*Maryland			
*Minnesota			
*Mississippi			
*Missouri	16		4
*Montana	99		5
*Nebraska			
*New Jersey	Unknown		
*North Carolina			
*North Dakota			
*Oregon	1,024		12
*Pennsylvania			
*Rhode Island			
*Tennessee			
*Utah	18	2	
*Virginia			
*Washington			
*West Virginia			
*Wisconsin	820		8
*Wyoming			
SUBTOTAL	5,355	2	36
Connecticut			
Delaware			
Iowa			
Kansas			
Michigan			
Nevada			
New York			
Ohio			
South Carolina			
Vermont			
Virgin Islands			
*States with General Permit Authority			

State General Permit Status (continued)			
	Discharges Covered Under General Permits	Number of <u>General Permits</u>	
		EPA	STATE
<u>NON-NPDES STATES</u>	227	1	
Alaska			
American Samoa		1	
Arizona	20		
Florida	3		
Guam			
Idaho	42	1	
Louisiana	< 630**	2	
Maine	< 80**	1	
Massachusetts	< 80**	1	
New Hampshire	< 80**	1	
New Mexico			
Oklahoma	< 500**	1	
Puerto Rico	45	1	
South Dakota	3	2	
Texas	< 500**	1	
Washington, D.C.			

**Given on a combined regional basis.

Average number of discharges covered under a general permit (excluding coal mines) = $3,302/50 = 66$

SOURCES: EPA Regional Survey, 1988; EPA Headquarters, 1991.

EXISTING GENERAL PERMIT CLASSIFICATION CATEGORIES

**Agricultural Production Livestock
Aquifer Restoration
Coal Mining
Concrete Products
Construction
Deep Seabed Mining
Fish Hatcheries and Preserves
Hydrostatic Testing
Laundry/Cleaning/Garment Services
LOG Transfer
Meat Products
Mine Dewatering
Noncontact Cooling Waters
Offshore Oil & Gas
Oil & Gas Extraction
Petroleum Bulk Stations
Placer Mining
Private Households
Processed Fruit & Vegetables
Salt Extraction
Sand & Gravel
Seafood Processing
Sewage Systems
Stormwater Runoff
Swimming Pool Filter Backwash
Water Supply**

**Sources: EPA Regional and State Permitting Authorities, 1988
Permit Compliance System, December 1987**

APPENDIX M

North Carolina's Department of Natural Resources and Community Development Effort and Cost of Permitting Study, April 1986

This appendix includes the North Carolina Case Study that outlines the effort and cost of permitting steps involved in a "minimum reputable standard/model permitting program," including a methodology of analysis.

DRAFT (4/16/86)

NPDES

ESTIMATED PERMITTING EFFORT
(PERSON-HOURS PER PERMIT OF 5-YEAR DURATION)

ACTION	EFF GRADE	COST /HR	MAJOR MUNICIPAL		MINOR MUNICIPAL		MAJOR INDUSTRIAL	MINOR INDUSTRIAL	SINGLE FAMILY	STORMWATER	COOLING WATER
			>10% IND	<10% IND	>10% IND	<10% IND					
Preapplication conference	71	15.15	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Application administration	57	8.29	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Initial engineering review	74	17.34	9.4	9.4	9.4	9.4	25.1	9.4	1.6	9.4	1.2
Biocide review	72	15.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
Pretreatment program	72	15.88	118.5	118.5	118.5	118.5	0.0	0.0	0.0	0.0	0.0
Staff report	71	15.15	31.4	23.6	23.6	23.6	25.1	12.6	12.6	23.6	23.6
WLA level B	71	15.15	4.7	4.7	4.7	4.7	6.3	6.3	0.0	0.0	4.7
WLA level C - modeling	73	16.67	241.8	241.8	241.8	241.8	241.8	241.8	0.0	0.0	241.8
WLA level C - field work	67	12.70	604.5	604.5	604.5	604.5	604.5	604.5	0.0	0.0	604.5
WLA level C/add reoperation	67	12.70	302.3	302.3	302.3	302.3	302.3	302.3	0.0	0.0	0.0
WLA level C renewal review	73	16.67	38.7	38.7	38.7	38.7	38.7	38.7	0.0	0.0	0.0
Review monitoring databases	69	13.84	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Data entry	57	8.29	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Final engr rev/draft permit	72	15.88	4.8	4.8	2.4	2.4	7.3	3.6	1.2	9.7	1.2
Public notice	57	8.29	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6	0.6
Hearing	75	18.24	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
Reclass / use attainability	71	15.15	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5
Permit issuance	65	11.62	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Records/data management	57	8.29	4.4	4.4	4.4	4.4	4.4	4.4	1.5	1.5	4.4
CEI	69	13.84	14.5	14.5	14.5	14.5	14.5	12.1	0.0	0.0	9.7
CSI	69	13.84	29.0	29.0	29.0	29.0	29.0	24.2	0.0	10.9	19.3
CSI biomonitoring	70	14.50	38.7	38.7	37.5	37.5	38.7	36.9	0.0	0.0	19.3
O&M	69	13.84	19.3	19.3	16.9	16.9	19.3	16.9	6.0	0.0	6.0
5-yr composite inspections	69	13.65	112.2	112.2	109.4	109.4	112.2	99.9	3.3	14.0	62.8
Annual nondischarge insp(S)	69	13.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Intensive toxicity eval	67	12.70	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0
Self-monitoring data rev	72	15.88	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Renewal notice	65	11.62	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Supervision	76	19.12	30.2	30.2	30.2	30.2	30.2	30.2	6.0	6.0	6.0
Authorisation to construct	72	15.88	32.9	32.9	32.9	32.9	32.9	32.9	0.0	0.0	33.2
Tax certification	71	15.15	9.7	9.7	9.7	9.7	0.0	0.0	0.0	0.0	0.0
TOTAL STAFF TIME-BASIC			252.9	245.0	239.8	239.8	256.6	212.4	36.2	74.9	157.3
ADDITIONAL STAFF TIME-LEVEL C			1148.6	1148.6	1148.6	1148.6	1148.6	1148.6	0.0	0.0	846.3
ADDITIONAL STAFF TIME-BEARING			54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
ADDITIONAL STAFF TIME-RECLASSIFICATION			205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5
ADDITIONAL STAFF TIME-PRETREATMENT			118.5	118.5	118.5	118.5	0.0	0.0	0.0	0.0	0.0
MAXIMUM TOTAL STAFF TIME			1779.8	1772.0	1766.8	1766.8	1665.1	1620.9	296.2	334.8	1263.5

Note: Chemical laboratory costs and effort are not included in this table.
Effort values adjusted for "typical" application quality and leave days.

ESTIMATED PERMITTING COSTS
(PER PERMIT OF 5-YEAR DURATION)

ACTION	RFP GRADE	COST /HR	MAJOR MUNICIPAL		MINOR MUNICIPAL		MAJOR	MINOR	SINGLE FAMILY	STORMWATER	COOLING WATER
			>100 IND	<100 IND	>100 IND	<100 IND	INDUSTRIAL	INDUSTRIAL			
Preapplication conference	71	15.15	71.43	71.43	71.43	71.43	71.43	71.43	71.43	71.43	71.43
Application administration	57	8.29	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54	19.54
Initial engineering review	72	15.88	149.75	149.75	149.75	149.75	399.34	149.75	24.96	149.75	19.20
Biocide review	72	15.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	149.75
Pretreatment program	72	15.88	1881.49	1881.49	1881.49	1881.49	0.00	0.00	0.00	0.00	0.00
Staff report	71	15.15	476.23	357.17	357.17	357.17	300.98	190.49	190.49	357.17	357.17
WLA level B	71	15.15	71.43	71.43	71.43	71.43	95.25	95.25	0.00	0.00	71.43
WLA level C - modeling	73	16.67	4030.81	4030.81	4030.81	4030.81	4030.81	4030.81	0.00	0.00	4030.81
WLA level C - field work	67	12.70	15527.15	15527.15	15527.15	15527.15	15527.15	15527.15	0.00	0.00	15527.15
WLA level C/add reoperation	67	12.70	3838.58	3838.58	3838.58	3838.58	3838.58	3838.58	0.00	0.00	0.00
WLA level C renewal review	73	16.67	644.93	644.93	644.93	644.93	644.93	644.93	0.00	0.00	0.00
Review monitoring databases	69	13.84	8.37	8.37	8.37	8.37	8.37	8.37	8.37	8.37	8.37
Data entry	57	8.29	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01
Final engr rev/draft permit	72	15.88	76.80	76.80	38.40	38.40	115.19	57.60	19.20	153.59	19.20
Public notice	57	8.29	39.01	39.01	39.01	39.01	39.01	39.01	0.00	39.01	39.01
Hearing	75	18.24	992.35	992.35	992.35	992.35	992.35	992.35	992.35	992.35	992.35
Reclass / use attainability	71	15.15	3113.78	3113.78	3113.78	3113.78	3113.78	3113.78	3113.78	3113.78	3113.78
Permit issuance	65	11.62	7.02	7.02	7.02	7.02	7.02	7.02	7.02	7.02	7.02
Records/data management	57	8.29	36.08	36.08	36.08	36.08	36.08	36.08	12.03	12.03	36.08
CSI	69	13.84	200.79	200.79	200.79	200.79	200.79	167.33	0.00	0.00	133.86
CSI	69	13.84	749.58	749.58	749.58	749.58	749.58	682.65	0.00	498.59	615.72
CSI biomonitoring	68	13.27	513.39	513.39	497.35	497.35	513.39	489.32	0.00	0.00	256.69
O&M	69	13.84	267.72	267.72	234.26	234.26	267.72	234.26	83.66	0.00	83.66
5-yr composite inspections	69	13.65	1531.53	1531.53	1493.31	1493.31	1531.53	1363.64	45.05	191.10	857.22
Annual nondischarge insp(5)	69	13.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intensive toxicity eval	67	12.70	30.71	30.71	30.71	30.71	30.71	30.71	0.00	0.00	0.00
Self-monitoring data rev	72	15.88	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
Renewal notice	65	11.62	7.02	7.02	7.02	7.02	7.02	7.02	7.02	7.02	7.02
Supervision	76	19.12	577.90	577.90	577.90	577.90	577.90	577.90	115.58	115.58	115.58
Authorization to construct	72	15.88	522.21	522.21	522.21	522.21	522.21	522.21	0.00	0.00	527.97
Tax certification	71	15.15	146.53	146.53	146.53	146.53	0.00	0.00	0.00	0.00	0.00
TOTAL COST--BASIC			3786.18	3667.13	3590.51	3590.51	3856.20	3190.64	535.30	1146.23	2320.62
ADDED COST FOR LEVEL C			23396.53	23396.53	23396.53	23396.53	23396.53	23396.53	0.00	0.00	19557.96
ADDED COST FOR HEARING			992.35	992.35	992.35	992.35	992.35	992.35	992.35	992.35	992.35
ADDED COST FOR RECLASSIFICATION			3113.78	3113.78	3113.78	3113.78	3113.78	3113.78	3113.78	3113.78	3113.78
ADDED COST FOR PRETREATMENT			1881.49	1881.49	1881.49	1881.49	0.00	0.00	0.00	0.00	0.00
MAXIMUM TOTAL COST			33170.34	33051.28	32974.66	32974.66	31358.86	30693.29	4641.43	5252.36	25984.70

Totals include public notice costs, overhead (computed at \$6000 per person-year), and laboratory costs of \$7850 per level C wasteload allocation and \$348 per CSI inspection.

DRAFT (4/16/86)

NONDISCHARGE

ESTIMATED PERMITTING EFFORT
(PERSON-HOURS PER PERMIT OF 5-YEAR DURATION)

ACTION	EFF GRADE	COST /HR	SLUDGE DISPOSAL	SUBSURFAC & LPP	SPRAY IRRIG	COASTAL PKG PLANT	ATC	RECYCLING, EVAP,P&R	SEWER EXT /PUMP STA	SEWER EXT	DELEGATED MUN SEWER	SINGLE FAMILY
Preapplication conference	71	15.15	3.0	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	3.0
Application administration	57	8.29	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Initial engineering review	72	15.88	4.0	4.0	4.0	4.0	4.0	1.0	1.5	1.0	0.5	4.0
Biocide review	72	15.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pretreatment program	72	15.88	0.0	0.0	98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Staff report	71	15.15	72.0	16.0	30.0	15.0	4.0	4.0	0.5	0.5	0.0	24.0
WLA level B	71	15.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WLA level C - modeling	73	16.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WLA level C - field work	67	12.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WLA level C/add reaeration	67	12.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WLA level C renewal review	73	16.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Review monitoring databases	69	13.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Data entry	57	8.29	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Final engr rev/draft permit	72	15.88	6.0	6.0	6.0	7.0	6.0	2.5	3.0	2.5	2.0	6.0
Public notice	57	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hearing	75	18.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reclass / use attainability	71	15.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Permit issuance	65	11.62	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
Records/data management	57	8.29	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
CSI	69	13.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CSI	69	13.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CSI biomonitoring	68	13.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O&M	69	13.84	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-yr composite inspections	69	13.65	0.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Annual nondischarge inspec(5)	69	13.65	40.0	15.0	40.0	15.0	15.0	15.0	0.0	0.0	0.0	0.0
Intensive toxicity eval	67	12.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Self-monitoring data rev	72	15.88	20.0	15.0	20.0	15.0	0.0	15.0	0.0	0.0	0.0	0.0
Renewal notice	65	11.62	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Supervision	76	19.12	25.0	5.0	25.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
TOTAL STAFF TIME-BASIC			175.2	69.2	193.2	69.2	42.2	50.7	14.9	13.9	12.4	47.2
ADDITIONAL STAFF TIME-PRETREATMENT			0.0	0.0	98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DRAFT (4/16/86)

NONDISCHARGE

ESTIMATED PERMITTING COSTS
(PER PERMIT OF 5-YEAR DURATION)

ACTION	EPP GRADE	COST /HR	SLUDGE DISPOSAL	SUBSURFAC & LPP	SPRAY IRRIGATION	COASTAL PLANT	ATC	RECYCLING, EVAP, P&H	SEWER EXT /PUMP STA	SEWER EXT	DELEGATED MUN SEWER	SINGLE SEWER FAMILY
Preapplication conference	71	15.15	45.45	45.45	45.45	45.45	45.45	45.45	0.00	0.00	0.00	45.45
Application administration	57	8.29	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44
Initial engineering review	72	15.00	63.52	63.52	63.52	63.52	63.52	15.00	23.82	15.00	7.94	63.52
Bicide review	72	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pretreatment review	72	15.00	0.00	0.00	1556.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Staff report	71	15.15	1090.80	242.40	454.50	227.25	60.60	60.60	7.58	7.58	0.00	363.60
MLA level B	71	15.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLA level C - modeling	73	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLA level C - field work	67	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLA level C/add reoperation	67	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLA level C renewal review	73	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Review monitoring databases	69	13.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Data entry	57	8.29	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
Final engr rev/draft permit	72	15.00	95.28	95.28	95.28	111.16	95.28	39.70	47.64	39.70	31.76	95.28
Public notice	57	8.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bearing	75	18.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reclass / use attainability	71	15.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permit issuance	65	11.62	5.81	5.81	5.81	5.81	5.81	5.81	2.32	2.32	2.32	5.81
Records/data management	57	8.29	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95	9.95
CSI	69	13.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CSI	69	13.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CSI biomonitoring	68	13.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
O&M	69	13.84	0.00	0.00	166.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-yr composite inspections	69	13.65	0.00	0.00	819.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual nondischarge insp(5)	69	13.65	546.00	204.75	546.00	204.75	204.75	204.75	0.00	0.00	0.00	0.00
Intensive toxicity eval	67	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Self-monitoring data rev	72	15.00	317.60	238.20	317.60	238.20	0.00	238.20	0.00	0.00	0.00	0.00
Renewal notice	65	11.62	17.43	17.43	17.43	17.43	17.43	17.43	17.43	17.43	17.43	17.43
Supervision	76	19.12	478.00	95.60	478.00	95.60	95.60	95.60	95.60	95.60	95.60	95.60
TOTAL COST--BASIC			3191.80	1234.58	4982.67	1235.31	736.70	896.20	263.90	245.13	217.35	849.37
ADDED COST FOR PRETREATMENT			0.00	0.00	1556.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAXIMUM TOTAL COST			3191.80	1234.58	6538.91	1235.31	736.70	896.20	263.90	245.13	217.35	849.37

Note: Total costs include overhead computed at \$6000/person and laboratory costs.

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ANALYSIS OF DATA

ESTIMATED EFFORT VS. AVAILABLE PERSON-YEARS

	NUMBER/YEAR IN CATEGORY	P-HR /PERMIT	ESTIMATED TOTAL	PERSON-HOURS AVAILABLE
Major municipal-pretreatment	16	371.4	6016.7	
Major municipal-no pretreatment	10	252.9	2478.4	
Minor municipal-pretreatment	14	358.3	5123.7	
Minor municipal-no pretreatment	31	239.8	7457.8	
Major industrial	21	256.6	5337.3	
Minor industrial	24	212.4	5097.6	
Package plants (subdivisions, schools, institutions, MMPs)	500	239.8	119900.0	
Single family	160	36.2	5792.0	
Stormwater	0	74.9	0.0	
Cooling water/boiler blowdown	100	157.3	15730.0	
Other (mines, WTPs, etc.)	50	36.8	1840.0	
TOTAL NPDES PERMITS	926	-	174773.5	
MLA - level C	3	1148.6	3445.8	
Permit hearing	20	54.4	1088.0	
Reclass/use attainability	5	205.5	1027.5	
NPDES TOTAL	954	-	175801.0	
Sludge disposal	70	175.2	12264.0	
Subsurface and LPP	90	69.2	6228.0	
Spray irrigation	110	193.2	21252.0	
Spray irrigation-pretreatment	3	291.2	873.6	
Coastal package plant	20	69.2	1384.0	
Authorization to construct	260	42.2	10972.0	
Recycling, evap, pump & haul	50	50.7	2535.0	
Sewer extension with pump sta	360	14.9	5364.0	
Sewer extension	520	13.9	7228.0	
Delegated municipality sewer extension	440	12.4	5456.0	
Single family spray irrigation	30	47.2	1416.0	
NONDISCHARGE TOTAL	1953	-	74972.6	
TOTAL ALL PERMITS	2907	-	250773.6	154960.0

Nondischarge permits do not include renewals of 5-yr and 2-yr duration permits.
ATCs and sewer extensions have indefinite durations.
Total person-hours available derived from FY86 program plan, page 19.

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ESTIMATED ACTUAL COST VS. PRESENT PERMIT REVENUES

TYPE OF PERMITS	NO/YR	FEE NOW	TOTAL FEES	COST PER PERMIT	TOTAL COST	POTENTIAL INCREASE
Major municipal-pretreatment	16	\$100.00	\$1,620.00	\$5,667.67	\$91,816.25	\$90,196.25
Major municipal-no pretreatment	10	\$100.00	\$980.00	\$3,786.18	\$37,104.56	\$36,124.56
Minor municipal-pretreatment	14	\$100.00	\$1,430.00	\$5,472.00	\$78,249.60	\$76,819.60
Minor municipal-no pretreatment	31	\$100.00	\$3,110.00	\$3,590.51	\$111,664.86	\$108,554.86
Major industrial	21	\$100.00	\$2,080.00	\$3,856.20	\$80,208.96	\$78,128.96
Minor industrial	24	\$100.00	\$2,400.00	\$3,190.64	\$76,575.36	\$74,175.36
Package plants (subdivisions, schools, institutions, NNPs)	500	\$100.00	\$50,000.00	\$3,590.51	\$1,799,755.00	\$1,749,755.00
Single family	160	\$25.00	\$4,000.00	\$535.30	\$85,648.00	\$81,648.00
Stormwater	0	\$0.00	\$0.00	\$1,146.23	\$0.00	\$0.00
Cooling water/boiler blowdown	100	\$75.00	\$7,500.00	\$2,320.62	\$232,062.00	\$224,562.00
Other (mines, WTPs, etc.)	50	\$100.00	\$5,000.00	\$574.31	\$28,715.50	\$23,715.50
TOTAL NPDES PERMITS	926	-	\$78,120.00	-	\$2,621,800.10	\$2,543,680.10
WLA - level C	3	\$0.00	\$0.00	\$23,396.53	\$70,189.59	\$70,189.59
Permit hearing	20	\$0.00	\$0.00	\$992.35	\$19,847.00	\$19,847.00
Reclass/use attainability	5	\$0.00	\$0.00	\$3,113.78	\$15,568.90	\$15,568.90
NPDES TOTAL	954	-	\$78,120.00	-	\$2,727,405.59	\$2,649,285.59
Sludge disposal	70	\$100.00	\$7,000.00	\$3,191.80	\$223,426.00	\$216,426.00
Subsurface and LPP	90	\$75.00	\$6,750.00	\$1,234.58	\$111,112.20	\$104,362.20
Spray irrigation	110	\$75.00	\$8,250.00	\$4,982.67	\$548,093.70	\$539,843.70
Spray irrigation-pretreatment	3	\$75.00	\$225.00	\$6,538.91	\$19,616.73	\$19,391.73
Coastal package plant	20	\$75.00	\$1,500.00	\$1,235.31	\$24,706.20	\$23,206.20
Authorization to construct	260	\$0.00	\$0.00	\$736.70	\$191,542.00	\$191,542.00
Recycling, evap, pump & haul	50	\$75.00	\$3,750.00	\$896.20	\$44,810.00	\$41,060.00
Sewer extension with pump sta	360	\$50.00	\$18,000.00	\$263.90	\$95,004.00	\$77,004.00
Sewer extension	520	\$25.00	\$13,000.00	\$245.13	\$127,467.60	\$114,467.60
Delegated municipality sewer extension	440	\$10.00	\$4,400.00	\$217.35	\$95,634.00	\$91,234.00
Single family spray irrigatio	30	\$25.00	\$750.00	\$849.37	\$25,481.10	\$24,731.10
NONDISCHARGE TOTAL	1953	-	\$63,625.00	-	\$1,506,893.53	\$1,443,268.53
TOTAL ALL PERMITS	2907	-	\$141,745.00	-	\$4,234,299.12	\$4,092,554.12

All NPDES renewals are treated like new permits since processing and compliance effort are the same. Nondischarge renewals are not included in these tables but should be. Fees are now set at \$25.00 for all renewals but 79% of all nondischarge permits never expire.

EFFORT AND COST OF PERMITTING

Purposes of Study:

- (1) To determine current actual costs of each step in permitting and compliance on each type of NPDES (National Pollution Discharge Elimination System) permit and state nondischarge permit.
- (2) To determine the total costs to the Division of Environmental Management (DEM) for each type of permit over their full duration from preapplication conference to expiration (life cycle costs).
- (3) To devise a revised water quality permit fee schedule which would recoup a set proportion of these costs.
- (4) To evaluate the adequacy of present funding to fulfill our current programmatic commitments.

Methods:

Structured one-on-one interviews with knowledgeable persons in DEM constituted the primary method used in this study. For each topic or process step, from three to twelve persons were interviewed. For each step or process, at least one person from each regional office was interviewed. Initial interviews were used to define the steps in NPDES and nondischarge permitting and compliance, and a draft sequence of steps was reviewed by each region and by numerous central office personnel. Similarly, preliminary categories of permit types were developed in interviews and then reviewed.

From these lists two matrices were developed with sequence of steps versus categories of permit types, one for NPDES permits and the other for nondischarge permits. The cells of the matrices were filled during interviews with regional and central office personnel, generally with the persons directly performing each step and their supervisor. Each interviewee was asked to estimate the time spent on each step both as a range and as a "typical" value. In nearly every case at least three independent estimates were given for each step, and the median value was used. The two resulting draft matrices were circulated to the regional supervisors, regional engineers, and central office unit supervisors for review, and their comments were used to make final revisions.

Laboratory costs were taken directly from the laboratory's cost charge sheet. Laboratory costs for level C studies were compiled by the Intensive Survey Unit from their experience over the past two years. Laboratory costs for compliance sampling inspections (CSIs) were computed by getting the Compliance Unit to identify which analyses are taken in every CSI and those which are sometimes taken. The unit costs of all every-time items and 25% of the unit costs of all sometimes items were added to estimate the laboratory cost for one CSI inspection. The actual median cost of hearing public notices over the past year was used.

An imaginary 5-year composite inspection was created for NPDES compliance inspections: its time requirements are the weighted averages of the four

inspection types weighted by the number of each type of inspection committed to in the FY86 program plan. This artificial construct was necessary because there is no written guidance concerning which type of inspection any given facility should undergo and because none of the interviewees were willing to commit to estimate the actual relative frequencies of the four types of inspections. As a fair estimate of effort, the 5-year composite inspection seems to work well and showed little sensitivity to large changes in the effort estimates in any one type of inspection or in the weighting coefficients.

The overall estimates of effort, in terms of person-hours, were then adjusted to account for leave taken by employees and for "real world" applications. Throughout the interviewing process, interviewees were asked to deal with "perfect" applications which did not require additional information, phone calls, conferences, or mailings. After the effort matrices were compiled, those permitting steps up through final engineering review were multiplied by a factor of 1.3 to convert from perfect to real world application quality. Level C wasteload allocation steps were not adjusted in this manner.

The effort matrices were then multiplied throughout by a factor of 1.209 to correct for leave taken by employees (vacation, sick leave, military leave, but not compensatory time). The 1.209 factor was computed from the management information system (MIS) figures for permitting activities for the year ending 9/30/85.

For each permitting and compliance step, a weighted average classification of employee doing that step was computed, based on individual classifications and relative individual effort in that step. All employees were presumed to be at step 4B which is accurate to within 5% of the actual steps when tested against at 10% sample of the full Water Quality Section.

Cost matrices were generated from the two effort matrices using these weighted costs, and costs for all steps for each permit type were summed to give the total permit cost for that type permit.

A final round of interviews was used to estimate the number of permits which is expected in FY87 in each category. For municipal permits, this estimate is very accurate because it is based on the list of expiring permits. For industries and package plants, the estimates are based on the high levels of activities experienced since January 1986 during a period of very high economic activity in most parts of the state. In any case the cost per permit data are independent of the number of permits issued or active during any period of time.

Results

The results of this survey are given in the six attached spreadsheets.

APPENDIX N

EPA Permit Issuance Workload Model, 1987

This appendix provides the EPA workload model that estimates outputs, workloads, and resources for various types of NPDES Permits.

PERMIT ISSUANCE
FY 1987 WORKLOAD MODEL

I. General Description

The FY 1987 Permit Issuance Model was developed based on a workgroup meeting between Regional and Headquarters representatives. As a result of the meeting, several new activities have been added to the model. These activities are: minor permitting, modifications/reopeners, general permits maintenance, state consistency reviews, local limits technical assistance, POTW audit activities and modifications to reflect national pretreatment program changes. The activities, pricing factors and assumptions regarding outputs in the FY87 model are essentially the same as in the FY86 model. However, some changes have been made to existing activities regarding assumptions and pricing factors. These changes include: the percentage of water quality-based permits has increased, the pricing factor for state program development and review has decreased, and the pricing factor for NPDES State assessment has increased. The workloads and associated resources are presented in three parts: Permitting; State Programs; and Pretreatment. Each part consists of: 1) a discussion of the approach taken; 2) a table showing the activities, descriptions, pricing factors, outputs, and comments explaining any important features or assumptions related to the outputs; 3) regional workloads; and 4) regional resources associated with the workloads.

Two assumptions underlie most of the output projections contained in this model. First, it is assumed that 20% of the total number of major permits (EPA and NPDES States) will be reissued in FY87. Second, to avoid a complex and prematurely speculative exchange of outputs between State program related activities and EPA permitting and pretreatment activities, the model assumes the current status of State program approvals.

The last part of the FY87 model presents the Regional resource distribution derived from the activities and workloads included in the model, the actual FY86 resource distribution and an adjusted FY87 resource distribution.

II. Permitting

Permitting activities include major and minor permit issuance to cities, industries and federal facilities as well as issuance of general permits and other activities associated with assuring complete and fully effective permits (responding to requests for hearings and variances). A computer printout of current PCS data on the status of permits was used to project the permit issuance workloads. Additional estimates were made of the number of these permits which will be water quality-based and will have request for hearings and variances. Estimates were also made on the number of significant minor permits, new source and general permits which will be issued.

Table 1 presents the permitting activities, pricing factors, outputs and comments, including assumptions. The Regional workloads for permitting and related activities are provided in Table 2. The resources (in FTE's) needed to complete the workloads for the permitting activities are provided in Table 3.

TABLE 1
Permitting

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
1. Major Municipal	Issue major municipal permits.			Assumes 20% of the total number of major municipal permits.
(a) Water Quality-Based	Issue permits with effluent limits based primarily on water quality standards.	60 days/ per permit	146	80% of the municipal permits to be issued are estimated to be water quality-based.
(b) Routine	Issue major municipal permits (technology-base).	20 days/ per permit	40	
(c) Modifications/ Reopeners	A change in the permit triggered by specific events (i.e., promulgation of effluent guidelines, biomonitoring, new information, etc.).	20 days/ per permit	80	Assumes 10% of permits issued in FY83, FY84, FY85, and FY86 will be modified or reopened.
(2) Major Industrial	Issue major industrial permits (technology-base).			Assumes 20% of the total number of major industrial permits.
(a) Water Quality-Based	Issue permits with effluent limits based primarily on water quality standards.	60 days/ per permit	196	80% of the industrial permits to be issued are estimated to be water quality-based.
(b) BAT	Issue permits in industrial categories for which effluent guidelines are promulgated and define BAT.	40 days/ per permit	23	
(c) BAT=BPT	Issue permits in industrial categories for which effluent guidelines are promulgated and define BAT equal to BPT.	25 days/ per permit	15	

TABLE 1
Permitting

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
(d) Paragraph 8	Issue permits in industrial categories covered or expected to be covered by paragraph 8.	25 days/ per permit	1	
(e) Secondary	Issue permits to majors in categories other than primary industry categories.	25 days/ per permit	5	
(f) Federal Facilities	Issue permits to major federal facilities.	25 days/per permit	7	
(g) New Source Permits	Issue permits to major new sources.	40 days/per permit	43	Output equals 2% of the total number of major permits.
(h) Modifications/ Reopeners	A change in the permit triggered by specific events (i.e., promulgation of effluent guidelines, biomonitoring, request from the permittee, etc.).	20 days/per permit	110	Assumes 10% of major permits issued in FY83, FY84, FY85 and FY86 will be modified or reopened.

TABLE 1
Permitting

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
3. Minor Municipal	Issue significant minor municipal permits.			Assumes that 10% of the 20% of total minor municipal permits will be significant minors.
(a) Water Quality-Based	Issue permits with effluent limits based primarily on water quality standards.	60 days/per permit	37	80% of the significant minors are estimated to be water quality-based.
(b) Routine	Issue permits to minor permits (technology-base).	20 days/per permit	10	
4. Minor Industrial	Issue significant minor industrial permits.			Assumes that 10% of the 20% of total minor industrial permits will be significant minors.
(a) Water Quality-Based	Issue permits with effluent limits based primarily on water quality standards.	60 days/per permit	101	(See minor municipal permit comments).
(b) BAT	(See major industrial permit description).	40 days/per permit	7	
(c) BAT=BPT	(See major industrial description).	25 days/per permit	2	
(d) Paragraph	(See major industrial description).	25 days/per permit	1	
(e) Secondary	(See major industrial description).	25 days/per permit	12	
(f) Federal Facility	(See major industrial description).	25 days/per permit	3	

TABLE 1
Permitting

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
5. General Permits				
(a) OCS	Issue general permits covering outer continental shelf activities.	200 days/per permit	23	
(b) Non-OCS	Issue general permits covering a category of discharges within a geographic area.	75 days/per permit	10	This output includes EPA drafting of permits and EPA assisting the NPDES States in drafting permits.
(c) Maintenance of general permits	Ongoing reporting, monitoring and tracking of general permits.	0.1 workyear/per Region	10	
6. Variances	Act on variances requested by major industrial permittees.	65 days/per variance	63	This output is estimated assuming 5% of the total number of major industrial permittees will request a variance.
(a) FDF' for Indirects		65 days/per variance	8	This output is estimated assuming 10% of the organic chemical plants will request an FDF variance.
7. Hearings				
(a) settled	Settle requests for evidentiary hearings through negotiation.	50 days/per request	59	This output is estimated assuming the following percentages of permittees will request evidentiary hearings which will be settled without formal adjudication: 5% of municipal 10% of BAT 60% of BAT=BPT 60% of Paragraph 8 10% of Secondary 15% of Water Quality-Based

TABLE 1
Permitting

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
Hearings				
(b) conducted	Participate in formal adjudicatory hearings.	220 days/per hearing	4	This output is estimated assuming adjudicatory hearings will be held on 2% of the major industrial and water quality-based permits.

TABLE 2
Permitting Workload - EPA

	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
Major Municipal:											
Water Quality	32	6	-	18	-	70	-	9	4	7	146
Routine	9	1	1	5	-	18	-	3	1	2	40
Modifications/ Reopeners	18	2	-	12	-	36	-	6	2	4	80
Major Industrial:											
Water Quality	25	13	-	26	-	76	-	4	5	47	196
BAT	4	3	-	5	-	10	-	-	1	-	23
BAT=BPT	-	-	-	-	-	2	-	1	-	12	15
Paragraph 8	-	-	-	-	-	1	-	-	-	-	1
Secondary	1	-	-	2	-	2	-	-	-	-	5
Federal	1	-	1	-	-	5	-	-	-	-	7
New Sources	7	2	-	5	-	18	-	2	1	8	43
Modifications/ Reopeners	14	6	-	14	-	42	-	2	2	30	110
Minor Municipal:											
Water Quality	2	2	-	1	-	26	-	4	1	1	37
Routine	1	-	-	-	-	7	-	1	-	1	10
Minor Industrial:											
Water Quality	11	2	1	10	-	57	-	4	2	14	101
BAT	2	-	-	2	-	1	-	1	-	1	7
BAT=BPT	1	-	-	-	-	-	-	-	-	1	2
Paragraph 8	-	-	-	-	-	1	-	-	-	-	1
Secondary	-	-	-	-	-	11	-	-	-	1	12
Federal	-	-	-	-	-	2	-	-	-	1	3
General Permits:											
OCS	1	3	3	4	-	1	-	-	3	8	23
Non-OCS	1	1	1	1	1	1	1	1	1	1	10
Variances:											
Direct	8	4	-	8	-	24	-	2	2	15	63
Indirect-FDP's	-	2	-	-	2	3	-	-	1	-	8
Hearings:											
Settled	8	3	-	7	-	22	-	2	2	15	59
Conducted	1	-	-	-	-	2	-	-	-	1	4

TABLE 3
Permitting FTE - EPA

	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
Major Municipal:											
Water Quality	8.7	1.6	-	4.9	-	19.1	-	2.5	1.1	1.9	39.8
Routine	0.8	-	-	0.5	-	1.6	-	0.8	-	0.2	3.9
Modifications/ Reopeners	1.6	0.2	-	1.1	-	3.3	-	0.5	0.2	0.4	7.3
Major Industrial:											
Water Quality	6.8	3.5	-	7.0	-	20.7	-	1.1	1.4	12.8	53.3
BAT	0.7	0.5	-	0.9	-	1.8	-	-	0.2	-	4.1
BAT=BPT	-	-	-	-	-	0.2	-	0.1	-	1.4	1.7
Paragraph 8	-	-	-	-	-	0.1	-	-	-	-	0.1
Secondary	0.1	-	-	0.2	-	0.2	-	-	-	-	0.5
Federal	0.1	-	0.1	-	-	0.6	-	-	-	-	0.8
New Sources	1.3	0.4	-	0.9	-	3.3	-	0.4	0.2	1.5	8.0
Modifications/ Reopeners	1.3	0.5	-	1.3	-	3.8	-	0.2	0.2	2.7	10.0
Minor Municipal:											
Water Quality	0.5	0.5	-	0.3	-	7.1	-	1.1	0.3	0.3	10.1
Routine	-	-	-	-	-	0.6	-	-	-	-	0.6
Minor Industrial:											
Water Quality	3.0	0.5	0.3	2.7	-	15.5	-	1.1	0.5	3.8	27.4
BAT	0.3	-	-	0.3	-	0.2	-	0.2	-	0.2	1.2
BAT=BPT	0.1	-	-	-	-	-	-	-	-	0.1	0.2
Paragraph 8	-	-	-	-	-	0.1	-	-	-	-	0.1
Secondary	-	-	-	-	-	1.3	-	-	-	0.1	1.4
Federal	-	-	-	-	-	0.2	-	-	-	0.1	0.3
General Permits:											
OCS	0.9	1.9	1.9	2.4	-	0.9	-	-	2.7	7.3	18.0
Non-OCS	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	3.0
General Permit Maintenance	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0
Variances:											
Direct	2.4	1.2	-	2.4	-	7.1	-	0.6	0.6	4.4	18.7
Indirect-FDF's	-	0.6	-	-	0.6	0.8	-	-	0.3	-	2.3
Hearings:											
Settled	1.8	0.7	-	1.6	-	5.0	-	0.5	0.2	3.4	13.2
Conducted	1.0	-	-	-	-	2.0	-	-	-	1.0	4.0
Total	31.8	12.5	2.7	26.9	1.0	95.9	0.4	9.5	8.3	42.0	231.0

III. State Programs

State program activities include: the development and approval of new State NPDES programs and modification of approved NPDES State programs; the assessment of approved State programs; assistance to States in the preparation of major and minor permit terms and conditions and resolution of challenges to major permits; and the review of major permits and State regulations to ensure consistency with the NPDES regulations and the Clean Water Act. Tables 4 and 7 lists these activities along with pricing factors, outputs, and the assumptions used in developing the outputs.

Table 4 shows the basic State permit issuance data used to project EPA workloads for assisting States in major and minor permit issuance and in reviewing State permits. Table 4 also includes the estimated number of hearings or appeals of permit terms or conditions. Table 5 shows the resources (FTE's) needed to complete the workloads.

The State programs approval and assessment workload and the regional resource needs are presented in Tables 8 and 9. The outputs are based on the number of States not yet approved to administer the NPDES permit program and those States for which modifications to add pretreatment and federal facility permit authority expected in FY87.

TABLE 4
State Programs

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
NPDES State - Permit Assistance	Technical assistance provided to States in the preparation of major permit conditions for the various types of permits and for the resolution of challenges to permits.			
1. Major Municipal				(1)
(a) Water Quality-Based	(1)	30 days/per permit	219	50% of State permit workload.
(b) Routine	(1)	10 days/per permit	9	10% of State permit workload.
(c) Modifications/ Reopeners	(1)	10 days/per permit	186	(1)
2. Major Industrial	(1)			(1)
(a) Water Quality-Based	(1)	30 days/per permit	203	50% of State permit workload.
(b) BAT	(1)	20 days/per permit	-	10% of State permit workload.
(c) BAT-BPT	(1)	10 days/per permit	2	50% of State permit workload.
(d) Paragraph 8	(1)	10 days/per permit	-	50% of State permit workload.
(e) Secondary	(1)	5 days/per permit	-	10% of State permit workload.

(1) = See Table 1 Descriptions and Comments

TABLE 4
State Programs

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
Major Industrial				
(f) Federal Facilities	(1)	20 days/per permit	-	20% of State permit workload.
(g) New Sources	(1)	15 days/per	20	20% of State permit workload.
(h) Modifications/ Reopeners	(1)	10 days/per permit	180	(1)
3. Minor Municipal	(1)			(1)
(a) Water Quality- Based	(1)	30 days/per permit	75	50% of state permit workload
(b) Routine	(1)	10 days/per permit	1	10% of state permit workload
4. Minor Industrial	(1)			(1)
(a) Water Quality Based	(1)	30 days/per permit	308	50% of state permit workload
(b) BAT	(1)	20 days/per permit	2	10% of state permit workload
(c) BAT-BPT	(1)	10 days/per permit	16	50% of state permit workload

(1) = See Table 1 Descriptions and Comments

TABLE 4
State Programs

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
Minor Industrial				
(d) Paragraph 8	(1)	10 days/per permit	7	50% of state permit workload
(e) Secondary	(1)	5 days/per permit	17	10% of state permit workload
(f) Federal	(1)	20 days/per permit	2	20% of state permit workload
5. Permit Review	Review permits for consistency with regulations and standards.	3 days/per permit	760	Assumes that EPA will review all state major permits and 25% of others. The number to be reviewed is the total permits issued less the number for which EPA provided assistance.
6. Hearings				
(a) settled	(1)	50 days/per request	12	10% of State hearing workload.
7. Variances	(1)	65 days/per request	128	(1)

(1) See Table 1 Descriptions and Comments

TABLE 5
Permitting Workload - NPDES State Assistance

	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
Major Municipal:	25	85	75	115	130	-	44	27	33	16	550*
Water Quality	10	34	30	46	52	-	18	10	13	6	219
Routine	1	2	1	2	3	-	-	-	-	-	9
Modifications/ Reopeners	8	24	28	35	48	-	15	10	13	5	186
Major Industrial:	30	69	82	139	111	-	26	20	23	15	515*
Water Quality	12	27	32	55	44	-	10	8	9	6	203
BAT	-	-	-	-	-	-	-	-	-	-	-
BAT=BPT	-	1	-	1	-	-	-	-	-	-	2
Paragraph 8	-	-	-	-	-	-	-	-	-	-	-
Secondary	-	-	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-	-	-
New Sources	1	3	3	5	5	-	1	1	1	-	20
Modifications/ Reopeners	9	18	28	55	41	-	8	6	10	5	180
Minor Municipal:	2	8	24	35	64	-	40	11	2	6	192*
Water Quality	1	3	9	14	25	-	16	4	1	2	75
Routine	-	-	-	-	1	-	-	-	-	-	1
Minor Industrial:	13	81	153	198	173	-	83	35	18	21	775*
Water Quality	5	32	61	79	69	-	33	14	7	8	308
BAT	-	-	1	-	1	-	-	-	-	-	2
BAT=BPT	1	-	6	2	4	-	2	1	-	-	16
Paragraph 8	1	-	1	1	2	-	-	-	1	1	7
Secondary	-	3	2	4	4	-	1	1	1	1	17
Federal	-	-	-	1	1	-	-	-	-	-	2
Permit Review	33	101	127	179	173	-	57	34	35	21	760
Hearings: Settled	-	3	2	3	3	-	1	-	-	-	12
Variances	7	17	20	35	28	-	6	5	6	4	128

*NPDES State Permitting Workloads for FY87.

TABLE 6
Permitting FTE - NPDES State Assistance

	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
Major Municipal:											
Water Quality	1.4	4.6	4.1	6.3	7.1	-	2.5	1.4	1.8	0.8	30.0
Routine	-	-	-	-	0.1	-	-	-	-	-	0.1
Modifications/ Reopeners	0.4	1.1	1.3	1.6	2.2	-	0.7	0.5	0.6	0.2	8.6
Major Industrial:											
Water Quality	1.6	3.7	4.4	7.5	6.0	-	1.4	1.1	1.2	0.8	27.7
BAT	-	-	-	-	-	-	-	-	-	-	-
BAT=BPT	-	-	-	-	-	-	-	-	-	-	-
Paragraph 8	-	-	-	-	-	-	-	-	-	-	-
Secondary	-	-	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-	-	-
New Sources	0.2	0.5	0.5	0.9	0.9	-	0.2	0.2	0.2	-	3.6
Modifications/ Reopeners	0.4	0.8	1.3	2.5	1.9	-	0.4	0.3	0.5	0.2	8.3
Minor Municipal:											
Water Quality	0.1	0.4	1.2	1.9	3.4	-	2.2	0.5	0.1	0.3	10.1
Routine	-	-	-	-	-	-	-	-	-	-	-
Minor Industrial:											
Water Quality	0.7	4.4	8.3	10.8	9.4	-	4.5	1.9	1.0	1.1	42.1
BAT	-	-	-	-	-	-	-	-	-	-	-
BAT=BPT	-	-	0.3	-	0.2	-	-	-	-	-	0.5
Paragraph 8	-	-	-	-	-	-	-	-	-	-	-
Secondary	-	-	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-	-	-
Permit Review	0.5	1.4	1.7	2.4	2.3	-	0.8	0.5	0.5	0.3	10.4
Hearings: Settled	-	0.4	0.3	0.4	0.4	-	0.1	-	-	-	1.6
Variances	2.1	5.0	5.9	10.3	8.3	-	1.8	1.5	1.8	1.2	37.9
Total	7.4	22.3	29.3	44.6	42.2	-	14.6	7.9	7.7	4.9	180.9

TABLE 7
State Programs

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
Approval/Assessment				
1. Program Development Assistance	Assistance in the development of NPDES program submissions and program modifications submissions.	45 days	18	Full Programs
		20 days	15	Pretreatment Program Modifications
2. Program Application Review	Review of NPDES state program submissions and NPDES State program modification submissions.	40 days	2	Full NPDES Programs
			4	Pretreatment Programs
			2	Federal Programs
3. NPDES Program Assessment	EPA assessment of approved NPDES State programs. Includes permitting and pre-treatment.			
(a) Large		1.3 workyear/ per NPDES State with >200 majors	11	
(b) Medium		0.8 workyear/ per NPDES State with 100-200 majors	10	

TABLE 7
State Programs

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
(c) Small		0.6 workyear/ per NPDES State with < 100 majors	17	
4. Consistency Reviews	Review of State regulations to ensure consistency with NPDES regulations and the CWA.		4	

TABLE 8
State Program Approvals/Assessment Workload

	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
Program Development Assistance											
Full Program	3	1	-	1	-	5	-	2	4	2	18
Pretreatment Modifications	-	2	3	-	2	-	1	4	2	1	15
Program Application Review/Approval											
Full Program	-	-	-	-	-	1	-	1	-	-	2
Pretreatment	-	-	1	-	1	-	1	1	-	-	4
Federal Facility	1	-	1	-	-	-	-	-	-	-	2
NPDES Program Assessment											
Large	1	2	1	3	3	-	-	-	1	-	11
Medium	-	-	2	3	2	-	1	1	1	-	10
Small	2	1	2	1	1	-	3	3	2	2	17
NPDES State Consistency Review											
	-	-	1	1	-	-	1	1	-	-	4

TABLE 9
State Program Approvals/Assessment FTE

	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
Program Development Assistance											
Full Program	0.6	0.2	-	0.2	-	1.0	-	0.4	0.8	0.4	3.6
Pretreatment Modifications	-	0.2	0.3	-	0.2	-	0.2	0.7	0.2	0.2	2.0
Program Application Review/Approval											
Full Program	-	-	-	-	-	0.2	-	0.2	-	-	0.4
Pretreatment	-	-	0.2	-	0.2	-	0.2	0.2	-	-	0.8
Federal Facility	0.2	-	0.2	-	-	-	-	-	-	-	0.4
NPDES Program Assessment											
Large	1.3	2.6	1.3	3.9	3.9	-	-	-	1.3	-	14.3
Medium	-	-	1.6	2.4	1.6	-	0.8	0.8	0.8	-	8.0
Small	1.2	0.6	1.2	0.6	0.6	-	1.8	1.8	1.2	1.2	10.2
NPDES State Consistency Review											
	-	-	0.5	0.5	-	-	0.5	0.5	-	-	2.0
Total	3.3	3.6	5.3	7.6	6.5	1.2	3.5	4.6	4.3	1.8	41.7

IV. Pretreatment

The primary focus of pretreatment activities will shift from local program approval to implementation and program oversight where the State is not approved to administer the pretreatment program.

Table 10 presents the pretreatment activities, pricing factors, total outputs and comments, including assumptions. The Regional workloads for pretreatment activities are provided in Table 11 and the associated resources needed to complete the workloads are provided in Table 12.

TABLE 10
Pretreatment

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
1. POTW Program review/approvals/ permit modifications	Review and approval of final POTW submissions and incorporation of new requirements into the permit.	15 days/per POTW	20	Assumes 2 new programs will be required per Region.
2. Annual Report Reviews	Review of annual reports required to be submitted by POTWs.	2 days/per report	700	All of the 700 EPA approved programs will be required to submit annual reports.
3. Follow-up to Annual Report Review	Phone or written contact with POTW personnel to resolve problems.	15 days/per report	210	Assumes 30% of the 700 annual reports submitted will require follow-up.
4. Audit Activities				
(a) pre-planning	File review, compliance analysis and materials preparation.	4 days/per audit	141	Of the 700 EPA approved programs, 20% will receive an on-site audit.
(b) on-site audit	Actual staff visit to POTW site.	3 days/per audit	141	20% of 700 approved programs will receive an on-site audit.
(c) audit report recommendations	Produce formal report on audit complete with remedial actions for POTW.	8 days/per report	141	

TABLE 10
Pretreatment

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
(d) follow-up on audit	Written and onsite activities to insure corrections by POTW.	5 days	69	Assumes 50% of POTWs audited will require some follow-up.
5. EPA Assistance to Approved Pretreatment States on Audits	EPA assistance to States on audits.	20 days/audit	99	Assumes 10% of State approved pretreatment programs will be visited by EPA/State evaluation teams during audits.
6. Local Limits Technical Assistance	Develop individual local limits with POTWs.	60 days	143	Assumes roughly 10% of 1463 required POTW programs will require technical assistance on local limits.
7. Modifications to Reflect National Program Changes	A change in the program triggered by specific events (e.g., revised regulations, local limits policy and toxicity limits).	10 days	292	Assumes 20% of the 1463 required pretreatment programs will be modified.

TABLE 10
Pretreatment

<u>Activities</u>	<u>Descriptions</u>	<u>Pricing Factors</u>	<u>Output</u>	<u>Comments/ Assumptions</u>
8. BMR Reviews	Review of baseline monitoring report required by industry.	2 days/IU	100	Assumes about 100 IUs required to submit BMRs are located where EPA is the control authority.
9. Category Determinations	Determining what categorical pretreatment standard applies to a specific industry.	12 days/IU	34	Roughly 1/3 of the 100 industrial users in the organic chemical category will request a category determination.
10. Removal Credits				
(a) Application Reviews	Evaluating individual POTW submissions demonstrating pollutant removal.	15 days	35	5% of the total 700 local POTWs will request removal credits authority.
(b) Consistent Removal Evaluations	Evaluate the consistent removal for existing credit recipients.	5 days	43	EPA will review consistent removal for all recipients.
11. Control of IUs in non-pretreatment POTWs where EPA is control authority	Identifying categorical industries not covered by approved States or POTWs and controlling their discharges.	5 days	1015	

TABLE 11
Pretreatment Workload

PRETREATMENT	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
New Program Review and Approval	2	2	2	2	2	2	2	2	2	2	20
Annual Report Review where EPA is Approval Authority	68	57	116	28	99	123	13	52	120	24	700
Follow-up to Annual Report Review	20	17	35	8	30	37	4	16	36	7	210
Audit Activities											
-Pre-planning for onsite audit	14	11	23	6	20	25	3	10	24	5	141
-Actual onsite audit	14	11	23	6	20	25	3	10	24	5	141
-Audit Report Recommendations	14	11	23	6	20	25	3	10	24	5	141
-Follow-up on Audit with POTW	7	5	12	3	10	12	1	5	12	2	69
EPA Assistance to Approved Pretreatment States on Audits	11	5	3	43	24	0	11	0	0	2	99
Local Limits Technical Assistance	8	8	14	40	33	12	7	5	12	4	143
Modifications to Reflect National Program Changes	16	16	28	81	68	24	16	10	24	9	292
BMR Reviews where EPA is control authority	5	15	5	5	20	25	5	5	10	5	100
Category Determinations	2	5	2	2	6	8	2	2	3	2	34
Removal Credits											
-Application reviews	3	3	6	1	5	6	1	3	6	1	35
-Consistent removal evaluations	4	5	6	2	19	3	-	1	3	-	43
Control of IUs in non-Pretreatment POTWs where EPA is control authority	105	70	140	35	70	175	35	210	105	70	1015

TABLE 12
Pretreatment FTE

PRETREATMENT	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
New Program Review and Approval	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0
Annual Report Review where EPA is Approval Authority	0.5	0.4	0.9	0.2	0.8	1.0	0.1	0.4	0.9	0.2	5.4
Follow-up to Annual Report Review	1.3	1.1	2.3	0.5	2.0	2.5	0.2	1.0	2.4	0.4	13.7
Audit Activities:											
-Pre-planning for onsite audit	0.3	0.2	0.4	0.1	0.4	0.5	-	0.2	0.4	0.1	2.6
-Actual onsite audit	0.2	0.2	0.3	0.1	0.3	0.3	-	0.1	0.3	0.1	1.9
-Audit Report Recommendations	0.5	0.4	0.7	0.2	0.7	0.8	-	0.3	0.8	0.2	4.6
-Follow-up on Audit with POTW	0.9	0.6	1.6	0.8	1.3	3.2	0.1	0.6	1.6	0.2	10.9
EPA Assistance to Approved Pretreatment States on Audits	0.9	0.4	0.2	3.3	1.9	-	0.9	-	-	0.2	7.8
Local Limits Technical Assistance	2.1	2.1	3.8	10.9	9.0	3.2	1.9	1.3	3.2	1.0	38.5
Modifications to Reflect National Program Changes	0.6	0.6	1.1	3.1	2.6	0.9	0.6	0.4	0.9	0.4	11.2
BMR Reviews where EPA is control authority	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	1.3
Category Determinations	0.1	0.3	0.1	0.1	0.3	0.4	0.1	0.1	0.2	0.1	1.8
Removal Credits											
-Application reviews	0.2	0.2	0.4	0.1	0.3	0.4	0.1	0.2	0.4	0.1	2.4
-Consistent removal evaluations	0.1	0.1	0.2	0.1	0.4	0.1	-	0.1	0.1	-	1.2
Control of IUs in non-Pretreatment POTWs where EPA is control authority	0.8	0.6	1.1	0.3	0.6	1.3	0.6	1.6	0.8	0.6	8.3
TOTAL	8.7	7.5	13.3	20.0	20.9	14.9	4.8	6.5	12.2	3.8	112.6