

JULY 1993

**TOXIC RELEASE INVENTORY DATA VERIFICATION:
COMPARISON OF TOXIC RELEASE INVENTORY (TRI) DATA TO
OTHER ENVIRONMENTAL DATA BASES**

FINAL REPORT

Prepared for:

North Carolina Department of Health, Environment, and Natural Resources
Pollution Prevention Program
Raleigh, North Carolina

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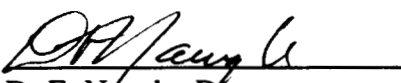
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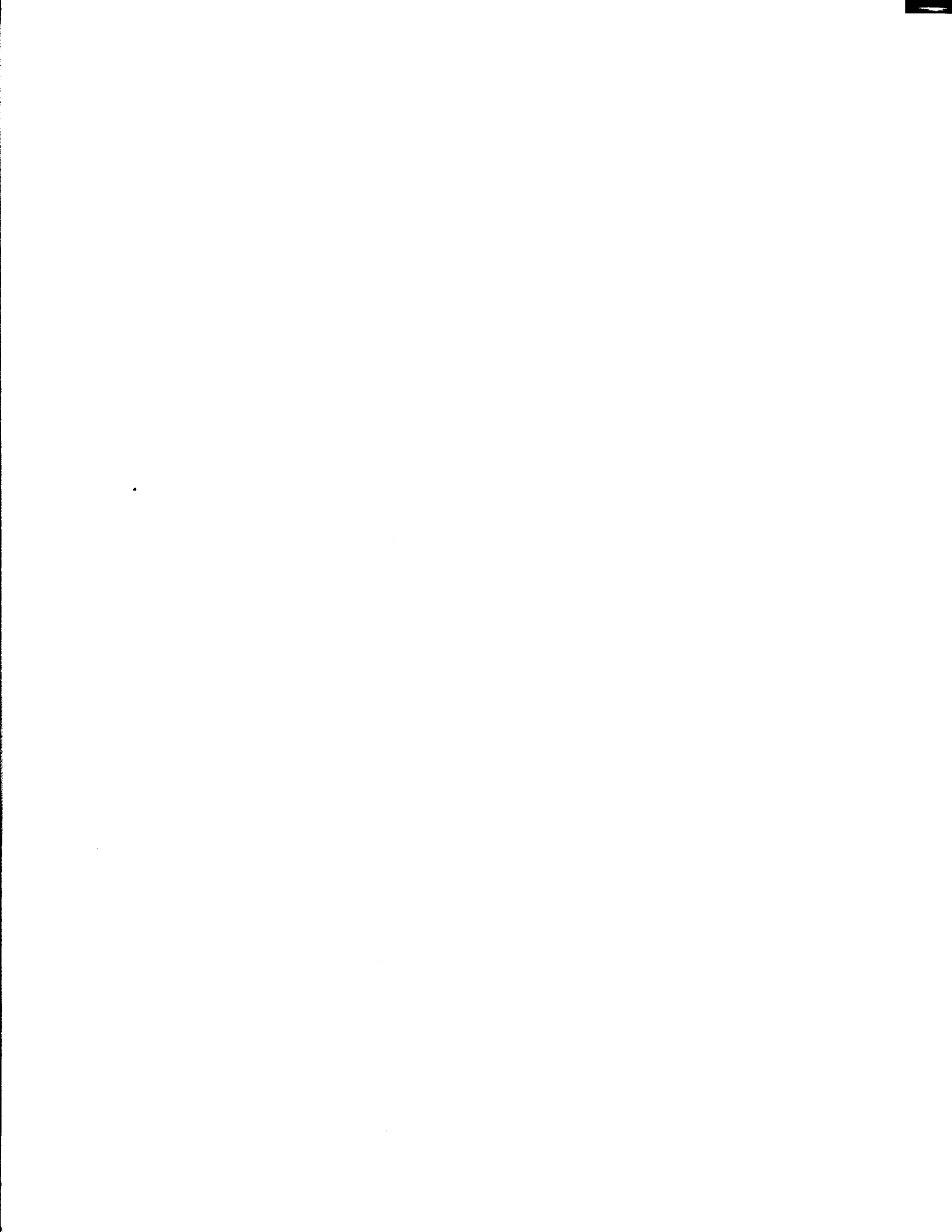


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1.0 INTRODUCTION

In 1986, the Environmental Protection Agency (EPA) introduced a Federal law that required certain facilities to report their annual releases of toxic materials to the environment. This law, the Emergency Planning and Community Right-to-Know Act, is described in Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA). It states that those facilities meeting certain criteria are required to complete and file the Toxic Release Inventory (TRI) Reporting Form annually. The criteria are as follows and all must apply:

- The facility has 10 or more full-time employees.
- The facility conducts manufacturing operations within the Standard Industrial Classification (SIC) codes 20 through 39.
- The facility manufactures, processes, or in any other way uses any of the listed toxic chemicals in amounts greater than the threshold quantities.

The threshold quantities for manufacturers and processors are:

- 75,000 lb during the 1987 calendar year,
- 50,000 lb during the 1988 calendar year, and
- 25,000 lb during the 1989 calendar year and in subsequent years.

The threshold quantities for users are as follows:

- 10,000 lb during the 1987 calendar year and in subsequent years.

The Section 313 toxic chemical list contains over 300 specific chemicals and about 20 chemical categories. However, these numbers may fluctuate yearly due to the addition or removal (delisting) of chemicals. Facilities are required to complete one TRI form for each listed chemical that is manufactured, processed, or used in quantities exceeding the threshold levels. Specifically, the forms contain the quantities of each chemical that are being released to air, water, and land. These forms cover the activity of the preceding calendar year and

are filed by July of each year. Facilities are required to submit TRI forms to EPA and their State governments.

In this way, TRI provides a complete, useful inventory of the toxic chemicals that are being released to the environment. Consequently, TRI data are used in a wide variety of efforts including those with significant impacts on environmental priorities and policy at both the Federal and State levels. It is crucial, therefore, that the TRI data be as accurate as possible.

The two primary objectives of this project are: (1) to determine the accuracy of and identify errors in TRI reporting data in the State of North Carolina for the years 1987 through 1990, and (2) to develop computer methodologies that can be used to compare TRI data with data in other environmental data bases. This report contains the results obtained from implementing the second objective. A separate report documents the results from the first objective.

To support North Carolina in its pollution prevention efforts, RTI has developed a multimedia waste reduction management system (WRMS) for use in identifying pollution prevention opportunities, targeting State resources, and tracking pollution prevention progress in the State. WRMS is a relational data base that integrates existing multimedia environmental release and waste generation data from the TRI and several single-media data bases. The purpose of this report is to describe how WRMS was used in an effort to verify TRI data by comparing TRI data in WRMS to toxics data reported in single-media data bases and by comparing TRI data across reporting years.

The goal of this effort was to develop computerized methodologies for implementing comparisons between TRI data in WRMS and toxics data reported to single-media data bases and to identify significant discrepancies within TRI and between the TRI and single-media data bases. Five specific comparisons were identified by the North Carolina Pollution Prevention Program (NCP PP):

- 1) Compare TRI data to release data in single-media data bases.
- 2) Identify facilities reporting releases above the TRI reporting thresholds to single-media data bases but not to TRI.
- 3) Compare TRI data across reporting years.
- 4) Compare facilities reporting under TRI to the State of North Carolina with the facilities reporting to EPA.
- 5) Link and compare TRI data to SARA Title III Section 312 data.

The methodology and results from the first three of these comparisons are described in the remainder of this report. The fourth comparison could not be completed because the necessary data on facilities reporting under TRI to the State of North Carolina were not available in computerized format, and neither project resources nor the Scope of Work allowed for computerization of these data from hard copy. The fifth comparison also could not be completed because the Section 312 data were not available in computerized form for the data years covered by WRMS (1987 through 1990). These data were available in computerized form for 1991 and 1992, and they were examined to assess the possibilities of such a link and comparison in future years. It was determined that the Section 312 data contained no facility identifiers in common with TRI data that would allow a computerized link between the two data bases.

This report is divided into two major sections. The Methodology section briefly describes WRMS and the single-media data bases and details the methods used to make each of the three comparisons. The Results section presents results of the comparisons. The computer programs used to implement these comparisons are included in Appendices A through D. The results of each comparison are presented in Appendices E through G. A detailed description of WRMS and its development may be found in *A Multimedia Waste Reduction Management System for the State of North Carolina*, prepared by RTI for NCPPP in April 1993.

2.0 METHODOLOGY

WRMS is a dBASE IV data base that contains data from TRI on releases of toxics to air, water, and land and transfers to publicly owned treatment works (POTWs) or offsite hazardous waste treatment, storage, or disposal facilities. WRMS also contains data on hazardous wastes, conventional water pollutants, and criteria air pollutants reported by TRI facilities from the following single-media sources:

- North Carolina Annual Report (NCAR) on Hazardous Waste Data Base,
- National Pollutant Discharge Elimination System (NPDES) Data Base,
- Municipal/Industrial Pretreatment Monitoring Data Base, and
- Air Quality National Emissions Data System (NEDS).

The hazardous waste, conventional water pollutant, and criteria air pollutant data included in WRMS from the above sources cannot be compared to the TRI data in WRMS because they cover different categories of pollutants. For the comparisons between TRI and the single-media data bases, toxics data from the single-media sources (which were not

included in WRMS so as not to create overlaps in coverage) were required. Not all of these data sources contain toxics data that could be compared with TRI data; only the NPDES and Pretreatment data bases were found to contain toxics data that could be compared directly to TRI data. NCAR contains data only on hazardous wastes. Although these were not toxics data, per se, in many cases, the toxics reported to TRI were probably contained in the hazardous wastes reported in NCAR; therefore, the NCAR data were also compared with the TRI data for constituents that might be found in each waste. NEDS currently contains only data on criteria air pollutants, so no comparison to TRI data could be made. However, the State of North Carolina is beginning to collect air toxics data, and these data may be available in the future for comparisons with TRI data. In summary, toxics data from the NPDES and Pretreatment data bases and hazardous waste data from NCAR were compared to TRI.

The toxics data from the NPDES and Pretreatment data bases had not been incorporated in WRMS, so the first step in the comparison was to convert them to the WRMS format. In order not to include them in WRMS itself, the converted data were stored in a separate dBASE file. The conversion process had two main components: matching facilities in the single-media data to those in TRI and converting facility, chemical, and emissions data to the WRMS format. All potential TRI facilities (i.e., manufacturing facilities) were included from the single-media data bases, whether they matched a facility already in WRMS or not. Nonmanufacturing facilities were excluded. Similarly, only toxic chemicals from the TRI list were included from the single-media data bases. For NPDES and Pretreatment data, concentration and flow data had to be converted to emissions data. The hazardous waste data were already in WRMS, so no additional conversion was needed.

The program used to convert these data, VCONVERT.PRG, is a modified version of the conversion program used to convert NPDES and Pretreatment data for WRMS. That conversion program (CONVERT.PRG) is described in detail in *A Multimedia Waste Reduction Management System for the State of North Carolina* (prepared for NCPPP by RTI, 1993). The program code for the verification conversion program is listed in Appendix A.

The rest of this section describes the methodology used for each comparison. Each methodology was implemented as a dBASE program. The program listings can be found in Appendices B through D.

2.1 Comparison of TRI Data to Single-Media Data

The single-media data bases available for this comparison (as discussed above) were the NPDES and Pretreatment data bases, which cover direct releases to water and transfers to POTWs, respectively, and the NCAR hazardous waste data. NPDES data were compared to TRI water release data, Pretreatment data were compared to TRI POTW transfer data, and hazardous waste data were compared to TRI offsite transfers. Because air toxics data may be

available in the near future, the methodology was designed to include comparisons for air. Air toxics data would be compared to TRI stack air release data.

Due to the different nature of the comparison of hazardous waste data to TRI data, this comparison was done differently than that for NPDES and Pretreatment. In addition, no formal computer methodology was developed for the hazardous waste comparison. The following discussion applies only to the NPDES and Pretreatment comparisons.

Records with missing data or data based on a reported range were excluded from the comparison. For example, NPDES and Pretreatment data are both reported as concentration in a waste stream. If the flow data for a facility was missing, these concentration data could not be converted to emissions data. These records were retained in the converted data, but were not used in the comparison. Similarly, TRI data may be reported as a range; these data were retained in WRMS but were not used in the comparison.

For each year of data, the facilities and chemicals reported in each single-media data base were matched with those reported to TRI and the quantities reported compared. If a chemical was reported by a facility to either the single-media data base or TRI but not to both, the quantity for the data base to which it was not reported was treated as zero. Not reported is distinguished from a reported quantity of zero, however. It should be noted that nonzero releases might not be reported due to threshold reporting requirements. However, because the thresholds for TRI are not release quantities but manufactured quantities, there is no clear minimum release value that can be used for unreported releases found in other data bases.

The quantities reported to each data base were compared and the differences between them calculated. All differences were calculated as positive values, regardless of which data base reported the higher value; in this way, differences could be summed across chemicals for a facility without equal but opposite discrepancies cancelling each other out.

To determine what level of discrepancy was significant, the data for each single-media data base were examined and the differences compared to typical quantities reported to each single-media data base. Based on this examination, the significance level for the NPDES data base was set at 1,000 lb (i.e., a difference in the quantity reported to TRI versus NPDES of 1,000 lb or more would be considered significant), and the significance level for the Pretreatment data base was set at 10,000 lb. The level for the Pretreatment data base was set higher because the quantities reported to the Pretreatment data base are typically much higher than those reported to NPDES, and using a significance level of 1,000 lb would have resulted in an enormous output for the Pretreatment comparison. Because no data were available for air toxics, the significance level for air was set to 1,000 lb. This may need to be modified when the air toxics data become available.

For each facility with one or more chemicals showing a discrepancy over the significance level, the significant discrepancies were summed to the facility level and the facilities sorted by total discrepancy. The data for those facilities and the chemicals with significant discrepancies were then output in a report, with the largest total discrepancies first. The report shows facility identification information, chemical name, and the quantities reported to TRI and the single-media data base.

This methodology was computerized in a dBASE program called TASK6.PRG. The program prompts the user to choose a single-media data base and a year for comparison, performs all calculations, and outputs the results to a text file named T6xyy.TXT where x is a one letter code indicating the single-media data base selected (N = NPDES, P = Pretreatment, A = air) and yy is the year selected (e.g., 87, 88, etc.). For example, the output file for a comparison of TRI and Pretreatment data for 1989 would be T6P89.TXT. The TASK6 program is listed in Appendix B.

2.2 Comparison of Single-Media Data to TRI Reporting Thresholds

The only single-media data bases available for this comparison (as discussed above) were the NPDES and Pretreatment data bases. Because air toxics data may be available in the near future, the methodology was designed to include comparisons for air. Release data for each single-media data base were compared to the reporting thresholds for TRI. Hazardous waste data were not compared to TRI reporting thresholds, since hazardous wastes may contain multiple constituents.

TRI has two reporting thresholds: one for chemicals "manufactured or processed," and one for chemicals "otherwise used." The manufactured or processed threshold started at 75,000 lb per year (lb/yr) for the 1987 reporting year, and decreased to 50,000 lb/yr in the 1988 reporting year and 25,000 lb/yr in the 1989 reporting year and thereafter. The otherwise used threshold is 10,000 lb for all reporting years. Note that these thresholds are for a quantity of chemical *manufactured, processed, or otherwise used*, not for quantities released. In fact, a facility could manufacture a chemical in quantities exceeding the threshold and release none of it. Similarly, another facility might manufacture the same chemical in quantities below the threshold but release most of it. The first facility would be required to report to TRI and the second would not. If a facility releases a quantity of a chemical that exceeds these reporting thresholds, then presumably that facility is manufacturing, processing, or otherwise using that chemical in quantities that exceed the threshold and should, therefore, be reporting to TRI. It is also possible that a facility reporting releases below these thresholds to single-media data bases is in fact manufacturing, processing, or otherwise using the chemical in quantities exceeding the TRI reporting thresholds, but since the single-media data bases do not report quantity manufactured, processed, or otherwise used, that more direct comparison cannot be made.

Records with missing data were excluded from the comparison. For example, NPDES and Pretreatment data are both reported as concentration in a waste stream. If the flow data for a facility were missing, then concentration data could not be converted to emissions data. These records were retained in the converted data but were not used in the comparison.

For each year of data, facilities and chemicals were compared to those reported to TRI. If a chemical was reported by a facility to the single-media data base but not to TRI, the quantity reported was compared to both the manufactured or processed threshold for that reporting year and the otherwise used threshold. Any release exceeding one of the TRI reporting thresholds and not reported to TRI was considered significant. Any releases either reported to TRI or not exceeding either threshold were excluded from further analysis. For the purposes of this comparison, a chemical was considered reported to TRI by a facility if there was a record in TRI for that facility and chemical, even if the reported quantity was zero. As was mentioned earlier, it is theoretically possible to exceed the TRI reporting threshold without actually releasing any of the chemical. Although a quantity exceeding the threshold reported to a single-media data base when a zero quantity is reported to TRI may represent a significant discrepancy, reporting was the issue in this comparison and not discrepancies in quantity.

Facilities with significant releases were divided into two groups: facilities reporting one or more chemicals over the manufactured or processed threshold, and facilities reporting no chemicals over the manufactured or processed threshold but one or more over the otherwise used threshold. For each facility with one or more chemicals showing a discrepancy, all releases in excess of the otherwise used threshold (which is the lower of the thresholds) were summed to the facility level, and the facilities sorted by total quantity of these releases. The data for those facilities and the chemicals exceeding the otherwise used threshold were then output in a report, with the largest total releases first. The report shows facility identification information, chemical name, and the quantity reported to the single-media data base.

This methodology was computerized in a dBASE program called TASK8.PRG. The program prompts the user to choose a single-media data base and a year for comparison, performs all calculations, and outputs the results to a text file named T8xyy.TXT where x is a one letter code indicating the single-media data base selected (N = NPDES, P = Pretreatment, A = air) and yy is the year selected (e.g., 87, 88). For example, the output file for a comparison of TRI thresholds and Pretreatment data for 1989 would be T8P89.TXT. The TASK8 program is provided in Appendix C.

2.3 Comparison of TRI Data Across Reporting Years

Three steps were used to compare the TRI data across the reporting years 1987 through 1990: reporting patterns, stopped reporting, and quantity discrepancies. These analyses were applied sequentially to each facility/chemical combination (corresponding to one Form R, the

form used to report to TRI); if a facility/chemical combination was flagged as a discrepancy in any step, it was not considered in later steps. Each step is described in the following paragraphs.

In the reporting pattern step, the data were examined for irregularities in a facility's pattern of reporting for a particular chemical. There are a variety of reasons that facilities may change their reporting status from one year to the next, including changes in reporting thresholds, chemicals listed and delisted, and changes in production practices at a facility. Irregularities were changes in reporting status that did not obviously fit into one of these scenarios. One common theme of the above reasons for change in reporting status is that changes resulting from them would likely be permanent or long term. For example, if a chemical is delisted, it is not likely to be relisted the next year. Similarly, facilities are not expected to change production practices for one year then change back. They *could* but it would not be typical. If a facility stopped reporting for any of these reasons, it would not be expected to start reporting again. Therefore, irregularities were defined as facilities that stopped reporting then resumed reporting after a period of not reporting (e.g., they report in one or more years, then do not report in one or more years, then report again in one or more years). In other words, reporting was considered irregular if all reporting years were not contiguous--if there was a gap in reporting. So a facility that does report, then does not report, then does report would be considered irregular because it has reported in two noncontiguous years.

In looking at reporting patterns, the quantity reported was not considered. Not reporting was also distinguished from reporting a release of zero. Facilities that reported a release of zero for a chemical were considered to have reported.

Facility/chemical combinations showing pattern discrepancies were output in a report showing the facility and chemical information and the reporting status in each year of the analysis. Facilities are shown in alphabetical order, as there was no way to rank a particular reporting pattern as "worse" than another. These facility/chemical combinations were then omitted from further consideration.

In the stopped reporting step, facilities that stopped reporting during the time period analyzed were examined for the total quantity reported in the last year they reported. The total quantity released was the sum of stack, fugitive, water, land, POTW, and offsite releases. If this quantity was greater than the manufactured or processed reporting threshold for the next reporting year, the facility/chemical combination was flagged as showing a discrepancy. The manufactured or processed reporting threshold was 50,000 lb in 1988 and 25,000 lb in 1989 and thereafter. So if a facility reported a chemical only in 1987, the quantity would be compared to the threshold for 1988, the next year in which they might have reported.

Facility/chemical combinations showing stopped reporting discrepancies were output in a report showing the facility and chemical information and the quantity reported or nonreporting status in each year of the analysis. This report is ordered by the last quantity reported, with the largest first. Each facility/chemical combination is treated separately, so a facility may have additional chemicals elsewhere in the report. The facility/chemical combinations in the stopped reporting discrepancies report were omitted from further consideration.

Finally, the quantities reported over time were compared for significant discrepancies. Only total quantity released was compared; the total quantity released and transferred was the sum of stack, fugitive, water, land, POTW, and offsite releases. Each year's quantity was compared to the next year's quantity. Two basic approaches to these comparisons were considered. The first was an absolute approach, in which the absolute difference in quantity between two reporting years was calculated and compared to a fixed cutoff. The second was a relative approach, in which the relative change in quantity between two reporting years was calculated and compared to a cutoff. The data spanned so many orders of magnitude that a log scale was used for this measure. The relative difference was calculated as:

$$\text{Difference} = \log_{10} \left(\frac{\text{Larger Quantity}}{\text{Smaller Quantity}} \right)$$

This results in a number representing the number of orders of magnitude difference between the two quantities (e.g., a value of 2 would indicate a difference of two orders of magnitude).

Neither of these approaches by themselves seemed to give adequate results; therefore, they were combined. A facility/chemical combination was considered to show a significant discrepancy if, over the years they reported, any two years showed a relative difference in quantity of more than one order of magnitude and an absolute difference in quantity of 3,000 lb or more. These cutoffs were determined by examination of the data.

Facility/chemical combinations showing quantity discrepancies were output in a report showing the facility and chemical information and the quantity reported or nonreporting status in each year of the analysis. The actual relative and absolute measures of discrepancies for each pair of years was not output, nor are the facilities ordered (except by alphabetical order), as there was no one measure of the magnitude of the discrepancy that could be used to order the data.

This methodology was computerized in a dBASE program called TASK7.PRG. The program can perform the analysis on up to five years of data. It analyzes the number of years available; if there are fewer than five, all years are analyzed. If there are more than five, the program prompts the user to choose a starting year for the analysis. Five years

starting with that year are analyzed (or all years available after the starting year, if that is fewer than five). Reporting pattern analysis is only performed if three or more years of data are available or selected for analysis. The program performs all calculations and outputs the results to three text files named T71.TXT, T72.TXT, and T73.TXT. These files contain the results of each step in the analysis: T71.TXT contains the results of reporting pattern analysis; T72.TXT contains the results of the stopped reporting analysis; and T73 contains the results of the quantity discrepancy analysis. The TASK7 program is listed in Appendix D.

3.0 RESULTS

The results of the comparisons described in Section 2 are shown in Appendices E through G. Appendix E contains the results for the comparison of TRI data to single-media data for NPDES, Pretreatment, and NCAR for reporting years 1987 through 1990. Appendix F presents the results for the comparison of single-media data to TRI thresholds for NPDES and Pretreatment for reporting years 1987 through 1990. Appendix G shows the results for the comparison of TRI data across reporting years over the period 1987 to 1990. For confidentiality reasons, all facility identifying information in the Appendices has been replaced with the facility's SIC code and the results sorted by SIC code.

For all of these results, it should be noted that a significant discrepancy identified in the results does not necessarily indicate incorrect data or the failure of a facility to report correctly. The different data bases compared have different reporting requirements and procedures that could result in legitimate discrepancies among data reported to different data bases. Similarly, for the comparison of TRI data over time, legitimate changes in operations and production levels or reporting requirements could result in significant discrepancies. In addition, data entry errors could result in discrepancies where, in fact, there are none. Finally, NPDES and Pretreatment data had to be converted from average concentration and flow data to emissions, which may have introduced errors. The results are not intended to be a definitive identification of reporting problems, but a screening tool for targeting NCPPP's future efforts.

3.1 Comparison of TRI Data to Single-Media Data

Detailed results of the comparison of TRI data to single-media data bases are presented in Appendix E. By far the most compelling result of this comparison for NPDES and Pretreatment was the rarity of finding the same chemical reported by the same facility to both TRI and NPDES or TRI and Pretreatment. Virtually all of the significant discrepancies took the form of a significant quantity of a chemical reported released by a facility to one of the data bases and not reported at all to the other. Not reported is distinguished from a reported quantity of zero in the comparison. Given that most of the significant discrepancies stem from differences in reporting (rather than actual quantities reported), it should be restated that

there are a variety of legitimate reasons possible for these discrepancies, including the different reporting requirements of TRI versus the NPDES or Pretreatment data bases.

Similarly, the hazardous waste comparison to TRI constituents reflects many discrepancies. There are many reasons why these discrepancies might appear. Hazardous wastes many contain additional constituents not usually associated with a particular waste, constituents not on the TRI list, TRI constituents falling below the TRI reporting threshold, or nontoxic components, all of which would contribute to the overall waste quantity but not to the sum of TRI constituents. Also, specific constituents may be associated with several different waste codes and so may not have been a part of the waste to which they are being compared. To fully identify the reasons for discrepancies at any particular facility, a detailed waste characterization of that facility's hazardous wastes would be needed.

Table I summarizes the number of facilities with significant discrepancies and the largest single discrepancy for each data base and year. For both NPDES and Pretreatment, the number of facilities with significant discrepancies decreased steadily from 1987 to 1990. Similarly, the largest discrepancy also decreased for both comparisons over that period. For both data bases, the chemical sodium sulfate (solution) appears frequently at the high end of the discrepancy list for 1987. In all cases, sodium sulfate (solution) was reported to TRI in large quantity and not reported to either the NPDES or Pretreatment data bases. This chemical was delisted from TRI in 1989, with the delisting taking effect retroactively for the 1988 reporting year, and it does not appear in later reporting years. In no instance was it seen reported to the NPDES or Pretreatment data bases, indicating that it likely was not required to be reported to those data bases.

The discrepancies between the NPDES and TRI data nearly all take the form of chemicals reported to TRI and not to NPDES. In no case was the same chemical reported by the same facility to both the NPDES and TRI data bases. The discrepancies between the TRI data and the Pretreatment data are more evenly divided between chemicals reported to TRI but not Pretreatment and chemicals reported to Pretreatment but not TRI. In a few cases (about four per year) the same chemical was reported by the same facility to both with significant discrepancies (greater than 10,000 lb difference between the two reported quantities).

3.2 Comparison of Single-Media Data to TRI Reporting Thresholds

Detailed results of the comparison of single-media data to the TRI thresholds are presented in Appendix F. Few facilities reported releases exceeding the TRI reporting thresholds that did not report these releases to TRI. For NPDES, only one facility reported releases not reported to TRI that exceeded the TRI manufactured or processed threshold in 1987 and 1990; no facilities reported releases not reported to TRI that exceeded either the manufactured or processed or the otherwise used threshold for 1988 and 1989. Some

TABLE I
SUMMARY OF DISCREPANCIES BETWEEN TRI
AND SINGLE-MEDIA DATA BASES

	1987	1988	1989	1990
Total Number of Facilities Reporting				
TRI	779	742	863	618
NPDES	65	72	78	80
Pretreatment	539	544	761	791
Number of Facilities with Significant Discrepancies				
NPDES vs TRI	65	45	34	33
Pretreatment vs TRI	192	144	108	99
Maximum Discrepancy (lb)				
NPDES vs TRI	60 million	530,000	85,000	340,000
Pretreatment vs TRI	2.7 billion	1.3 billion	310 million	260 million

Notes:

- Maximum discrepancies are rounded.
- Because the number of facilities with significant discrepancies includes facilities that reported to only one of the data bases being compared, this number may exceed the total number of facilities reporting to either of the data bases individually.

Pretreatment facilities reported releases not reported to TRI that exceeded one or both of the TRI thresholds for each reporting year. It should be recalled that much larger quantities are typically reported to the Pretreatment data base than to the NPDES data base, so the difference in results between the two is not surprising.

Table II summarizes the number of facilities with releases exceeding each of the TRI thresholds that were not reported to TRI for each data base and year. For both NPDES and Pretreatment, this number of facilities did not change significantly between 1987 and 1990, despite the decreasing manufactured or processed threshold.

3.3 Comparison of TRI Data Across Reporting Years

Detailed results of the comparison of TRI data across reporting years are presented in Appendix G. A large number of discrepancies were found: 278 facilities showed irregular reporting patterns, 268 facilities stopped reporting after reporting quantities over the reporting threshold the previous year, and 145 facilities had quantity discrepancies over time. While there may be overlap among these groups of facilities (a facility could be in one group for one chemical and another group for a different chemical), this is still a significant fraction of the approximately 1,200 facilities reporting to TRI in the period examined.

There are a variety of legitimate reasons that may account for some of the discrepancies found. Changes in the actual reporting requirements or in the interpretation of reporting requirements from year to year may have resulted in irregular reporting or stopped reporting. One major explanation for many of the stopped reporting discrepancies is the delisting of certain chemicals. Table III lists the chemicals delisted each year since TRI started. The delisting of sodium hydroxide in 1989 explains the failure of many facilities to report sodium hydroxide in 1989 after two years of reporting very large quantities. Sodium sulfate solution is a similar case (although shown as delisted in 1989, the delisting was retroactive to 1988, explaining the absence of reporting for sodium sulfate solution in 1988 after large quantities were reported in 1987). The interpretation of all these results should be made in light of such changes in reporting requirements.

TABLE II
SUMMARY OF FACILITIES EXCEEDING TRI REPORTING THRESHOLDS
BUT NOT REPORTING TO TRI

	1987	1988	1989	1990
Total Number of Facilities Reporting				
NPDES	65	72	78	80
Pretreatment	539	544	761	791
Number of Facilities Exceeding TRI Manufactured or Processed Threshold				
NPDES	1	0	0	1
Pretreatment	28	17	31	23
Number of Facilities Exceeding TRI Otherwise Used Threshold*				
NPDES	0	0	0	0
Pretreatment	34	11	11	11

* Does not include facilities shown as exceeding the manufactured or processed threshold.

Manufactured or Processed Threshold:

75,000 lb in 1987
50,000 lb in 1988
25,000 lb in 1989 and thereafter

Otherwise Used Threshold:

10,000 lb for all reporting years

TABLE III
CHEMICALS DELISTED FROM TRI BETWEEN 1988 AND 1991

Reporting Year ^a	Chemicals Delisted
1988	CI Acid Blue 9, diammonium salt
	CI Acid Blue 9, disodium salt
	Titanium dioxide
1989	Melamine
	Sodium sulfate (solution)
	Sodium hydroxide
1990	Aluminum oxide
	Terephthalic acid
1991	CI Pigment Blue 15 (<i>from Copper Compounds</i>)
	CI Pigment Green 7 (<i>from Copper Compounds</i>)
	CI Pigment Green 36 (<i>from Copper Compounds</i>)

^aThis is the reporting year for which the Form R instructions first note the chemical as delisted, typically the same year as the *Federal Register* notice delisting the chemical. However, chemicals are sometimes delisted retroactively, and any unnecessary reports deleted from (or never entered to) the TRIS data base, from which TRI data for WRMS were obtained. For example, sodium sulfate (solution) was delisted in 1989, retroactive to 1988, and all reports for sodium sulfate (solution) for 1988 have been omitted from TRIS.



APPENDIX A
PROGRAM CODE FOR VCONVERT.PRG




```

*****
*
* Filename: VCONVERT.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated: 2/16/93
* Comments: Main WRMS Data Base Data Verification Conversion Utility program
*           for converting data from NPDES and Pretreatment data base formats
*           to WRMS format.
*
*           This program uses a two-level menu: the first (menu_1) lets the
*           user choose a data source to convert from (e.g., NPDES); the
*           second lets them select a conversion activity.
*
*           There are 3 conversion activities: facility matching, chemical
*           matching, and emissions conversion, which must be done in that
*           order. In addition, the program creates a working file or files
*           for use in the conversion program. The main VCONVERT program
*           calls other programs to perform each of these activities (creating
*           working files, facility matching, chemical matching, and emissions
*           conversion). Each data source has its own program for each of
*           these activities, since each data source is different and requires
*           different operations to be converted.
*
*           The VCONVERT program expects to find the following subdirectories
*           on the default drive:
*           \WRMS
*           \WRMS\NPDES
*           \WRMS\PRETREAT
*           It expects the main WRMS data files and the VCONVERT program
*           itself to be in \WRMS, and the data source specific program files,
*           original data files, working file(s), and any ancillary files
*           needed by the conversion program to be in the appropriate
*           subdirectory listed above.
*
*****

* Call the procedure that initializes environment with SET commands, defines
* menus, and defines memvars

DO initial

* Main program loop to display menus; the loop redisplay the main menu after
* lower level ones return control, until the user selects quit and the loop is
* exited.

DO WHILE .T.

    mexit_1 = .F.                && set menu_1 exit flag to false
    source = space(10)          && initialize data source variable

    DO show_1                   && display menu_1
    DO eval_1                   && evaluate menu_1 choice

* If user selected EXIT, exit menu_1 loop, otherwise continue

    IF mexit_1
        EXIT
    ENDIF

    IF source = space(10)
        LOOP
    ENDIF

* Check for working data file, and create it from original data if it does
* not exist. If original data file not found, display error message and
* return to menu_1. If working data exists, restore status information
* that tells where user left off.
* The working, original, and source variables are set when the user makes

```

```

* a choice in menu_1.
IF .NOT. file(working)                                && no working file
    IF .NOT. file(original)                            && no original data file either
        @ 1,0 CLEAR                                    && Display error message
        @ 9,27 TO 13,52 DOUBLE
        @ 11,29 SAY "Source file not found."
        @ 22,50 SAY "Press any key to continue ..."
        WAIT ""
        LOOP                                           && go back to menu_1
    ELSE                                               && original data file found
        DO &source.vwork                               && call prog to create working file
        SAVE TO &source.vstatus ALL LIKE 1_*         && create status variable file
    ENDIF                                             && so user can resume later
ELSE                                                 && working file found
    RESTORE FROM &source.vstatus ADDITIVE            && restore status of where user
ENDIF                                               && left off

* Loop to display menu_2
DO WHILE .T.
    mexit_2 = .F.                                     && set menu_2 exit flag to false
    DO show_2                                         && display menu_2
    DO eval_2                                         && evaluate menu_2 choice

* If user selected EXIT or completed conversion, exit menu_2 loop; otherwise
* continue
    IF mexit_2 .OR. 1_emiss
        EXIT
    ENDIF

* Save status memory variables for use next time to determine where to pick up
* conversion.
    SAVE TO &source.vstatus ALL LIKE 1_*

ENDDO                                             && restart menu_2 loop

* User has exited from menu_2 or completed conversion for selected data source
ENDDO                                             && restart menu_1 loop

* User has exited from menu_1 (main menu)
* Reset environment, close all files, quit to dBase

DO reset
RETURN && vconvert.prg

***** PROCEDURE DEFINITIONS *****

PROCEDURE initial

* Initialize program environment

CLEAR ALL                                         && closes all files, clears screen and memory
SET BELL OFF                                     && Turns off warning bell
SET CLOCK OFF                                   && Turns off clock display
SET DEVICE TO SCREEN                            && Directs all output to the screen

```

```

SET EXACT OFF          && Disables exact matching
SET HELP OFF          && Disables help
SET SAFETY OFF        && Suppresses overwrite warnings
SET SCOREBOARD OFF    && Turns off delete, insert, caps, and numlock
                      && indicators
SET STATUS OFF        && Turns off status line
SET TALK OFF          && Suppresses echo of command progress

```

```

* Initialize variables to be shared by all programs called by VCONVERT
* These are status variables that reflect how much of the conversion
* process has been completed (and therefore, where the user left off)
* so that the user can resume in the same place later. Working and original
* hold the names of the working and original data files that the programs
* expect to find for each data source.

```

```

PUBLIC l_fac_done, l_chm_done, l_emiss, working, original

```

```

* Call the procedure that defines the menus

```

```

DO defmenus

```

```

RETURN && initial

```

```

*****

```

```

PROCEDURE defmenus

```

```

* These are popup menus displayed in the middle of the screen
* The PROMPT text appears on the menu itself; the MESSAGE text appears below
* the menu and clarifies the menu prompt

```

```

* Define menu_1 to choose data source

```

```

SET BORDER TO DOUBLE
DEFINE POPUP menu_1 FROM 8,28 TO 14,50
DEFINE BAR 1 OF menu_1 PROMPT "NPDES";
  MESSAGE "Convert data from NPDES format"
DEFINE BAR 2 OF menu_1 PROMPT "Pretreatment";
  MESSAGE "Convert data from Pretreatment format"
DEFINE BAR 3 OF menu_1 PROMPT "AIRS";
  MESSAGE "Convert data from AIRS format"
DEFINE BAR 5 OF menu_1 PROMPT "Exit to dBase";
  MESSAGE "Exit WRMS Conversion Utility to dBase"
ON SELECTION POPUP menu_1 DEACTIVATE POPUP

```

```

* Define menu_2 to choose conversion activity

```

```

DEFINE POPUP menu_2 FROM 8,28 TO 14,50
DEFINE BAR 1 OF menu_2 PROMPT "Match Facilities";
  MESSAGE "Match facilities to facilities already in FACILITY file"
DEFINE BAR 2 OF menu_2 PROMPT "Match Chemicals";
  MESSAGE "Match chemicals to chemicals already in CHEMICAL file"
DEFINE BAR 3 OF menu_2 PROMPT "Convert Emissions";
  MESSAGE "Convert emissions data to WRMS format"
DEFINE BAR 5 OF menu_2 PROMPT "Exit to Source Menu";
  MESSAGE "Return to Data Source Menu"
ON SELECTION POPUP menu_2 DEACTIVATE POPUP

```

```

RETURN && defmenus

```

```

*****

```

```

PROCEDURE show_1

```

```

* Display menu_1 with screen header and instructions

```

```

CLEAR
@ 0,1 SAY "WRMS DATA VERIFICATION CONVERSION UTIL

```

```

I T Y"
@ 5,9 SAY "Choose a data source using the arrow keys and press <Enter>"
@ 17,10 TO 20,67
@ 18,11 SAY "This utility converts data from one of the above formats"
@ 19,11 SAY "to the WRMS format for data verification."
ACTIVATE POPUP menu_1

```

```

RETURN && show_1

```

```

*****

```

```

PROCEDURE eval_1

```

```

* Evaluate menu_1 choice
* Under each data source choice, the source, working, and original variables
* are set to reflect the user's data source choice. The source variable will
* be appended to the beginning of subroutine calls to select the subdirectory
* and program specific to the chosen data source. The working and original
* variables tell VCONVERT what the names of the working and original data files
* are for the chosen data source, so it can see if they exist or (in the case
* of the working file) need to be created. Some data source choices also
* initialize some additional status variables for use by called programs.

```

```

DO CASE

```

```

CASE bar() = 5                                && User selected Exit
  mexit_1 = .T.                                && Set exit flag to true
CASE bar() = 1                                && User selected NPDES

```

```

  source = "npdes\N"
  working = "npdes\nconcext.dbf"
  original = "npdes\npdes.dat"
  PUBLIC l_cauto

```

```

CASE bar() = 2                                && User selected Pretreatment

```

```

  source = "pretreat\P"
  working = "pretreat\prext.dbf"
  original = "pretreat\pretreat.dat"

```

```

CASE bar() = 3                                && User selected AIRS

```

```

  DO not_avail
  source = "air\A"
  working = "air\airsext.dbf"
  original = "air\airs.dat"

```

```

ENDCASE

```

```

RETURN && eval_1

```

```

*****

```

```

PROCEDURE show_2

```

```

* Display menu_2 with instructions. Header should still be displayed from
* menu_1.

```

```

@ 1,0 CLEAR
@ 5,7 SAY "Choose a conversion activity using the arrow keys and press <Enter>"
@ 17,5 TO 19,75
@ 18,6 SAY "Facility and Chemical Matching MUST be done before Convert Emissions."

```

```

ACTIVATE POPUP menu_2

```

```

RETURN && show_2

```

```

*****

```

```

PROCEDURE eval_2

```

```

* Evaluate menu_2 choice
* Conversion must be done in the correct order: Facility matching first,
* Chemical meatching second, and Emissions conversion last. If the user
* tries to select a choice out of this order, a message will be displayed
* telling them what segments they must do before the one they chose.

```

* Similarly, if the user selects a segment that has already been done, a
 * message will be displayed indicating that. In both cases, the menu will
 * be redisplayed after the message is displayed.

```
DO CASE
CASE bar() = 5                && User selected Return to main menu
  mexit_2 = .T.              && Set exit flag to True

CASE bar() = 1                && User selected Facility Matching
  IF l_fac_done              && Facility matching already done
    DO already               && Display message

  ELSE                        && Facility matching not already done
    DO &source.vfac          && Call program to do facility matching
  ENDIF

CASE bar() = 2                && User selected Chemical Matching
  DO CASE
    CASE l_chm_done          && Chemical matching already done
      DO already             && Display message

    CASE l_fac_done          && Facility matching has been done
      DO &source.vchem       && Call program to do Chemical matching

    OTHERWISE                && Facility matching not done yet
      DO nofac               && Direct user to do Facility matching
                           && before selecting Chemical matching
  ENDCASE

CASE bar() = 3                && User selected Emission conversion
  DO CASE
    CASE l_emiss             && Emission conversion already done
      DO already             && Display message

    CASE l_chm_done          && Chemical matching has been done (implies
      && Facility matching done also)
      DO &source.vemiss      && Call program to do Emission conversion

    CASE l_fac_done          && Facility matching done, but not Chemical
      && matching (otherwise, previous CASE would
      && have been true)
      DO no_chem             && Direct user to do Chemical matching
                           && before selecting Emissions conversion

    OTHERWISE                && Neither Facility nor Chemical matching done
      && (otherwise, a previous CASE would have been
      && true)
      DO no_fac_chm         && Direct user to do both Facility and
                           && Chemical matching before selecting
                           && Emissions conversion

  ENDCASE
ENDCASE
RETURN && eval_2
```

PROCEDURE reset

* Reset default environment; this reverses the SET commands in INITIAL

```
CLEAR ALL
SET ESCAPE ON
SET EXACT OFF
SET HELP ON
SET SAFETY ON
SET SCOREBOARD ON
```

SET STATUS ON
SET TALK ON
RETURN && reset

PROCEDURE already

* Display message telling user they have already done the selected task

@ 1,0 CLEAR
@ 9,18 TO 13,58 DOUBLE
@ 11,20 SAY "You have already completed this task."
@ 22,50 SAY "Press any key to continue ..."
WAIT ""

RETURN && already

PROCEDURE no_fac

* Display message telling user to match facilities before chemicals

@ 1,0 CLEAR
@ 9,21 TO 14,56 DOUBLE
@ 11,23 SAY "You must Match Facilities before"
@ 12,23 SAY "you can Match Chemicals."
@ 22,50 SAY "Press any key to continue ..."
WAIT ""

RETURN && no_fac

PROCEDURE no_chem

* Display message telling user to match chemicals before converting emissions

@ 1,0 CLEAR
@ 9,21 TO 14,55 DOUBLE
@ 11,23 SAY "You must Match Chemicals before"
@ 12,23 SAY "you can Convert Emissions."
@ 22,50 SAY "Press any key to continue ..."
WAIT ""

RETURN && no_chem

PROCEDURE no_fac_chm

* Display message telling user to match facilities and chemicals before
* converting emissions

@ 1,0 CLEAR
@ 9,19 TO 14,61 DOUBLE
@ 11,21 SAY "You must Match Facilities and Chemicals"
@ 12,21 SAY "before you can Convert Emissions."
@ 22,50 SAY "Press any key to continue ..."
WAIT ""

RETURN && no_fac_chm

PROCEDURE not_avail

* Display message telling user that the selected option is not available.

@ 1,0 CLEAR
@ 9,24 TO 13,55 DOUBLE

```
@ 11,26 SAY "This option is not available."  
@ 22,50 SAY "Press any key to continue..."  
WAIT ""  
RETURN && not_avail  
  
* EOF: vconvert.prg
```

```

*****
*
* Filename: NVWORK.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated: 2/24/93
* Called by:VCONVERT
* Comments: Creates working NPDES files for verification conversion program,
*           with structure extended to include fields used in processing.
*           Also cleans up some fields.
*
*****

* Initialize status variables. These variables indicate which steps of the
* conversion process have been completed.

l_fac_done = .F.      && Facility matching done
l_chm_done = .F.      && Chemical matching done
l_cauto = .F.         && Auto chemical matching done
l_emiss = .F.         && Emissions conversion done

* Initialize other variable.

myear = space(2)      && Year to be converted

* Ask for year being converted.

@ 1,0 CLEAR
SET CONFIRM ON
@ 9,20 SAY "Enter year of data being converted: 19"
@ 9,58 GET myear PICTURE "99"
READ
SET CONFIRM OFF

* Create intermediate NPDES data file - the original data file is in ASCII
* format; this just pulls it into dBase format.

* SET TALK ON echos the number of records processed to the screen so that the
* user can see the progress of the records being added.

@ 1,0 CLEAR
@ 8,11 SAY "Creating intermediate file ...."

CREATE npdes\npdesint FROM npdes\nintstru
SET TALK ON
APPEND FROM npdes\npdes.dat TYPE SDF

* Convert averages from character to numeric format, and consolidate weighting
* variables (only one of cnt19 and cnt26 will be nonzero for a record).

REPLACE ALL avg WITH val(cavg), weight WITH cnt19 + cnt26
SET TALK OFF
@ 9,0 CLEAR
CLOSE DATABASE
@ 8,43 SAY "Done"

* The intermediate file is divided into two working files, one for flow data
* and one for pollutant concentration and loading data.

@ 9,11 SAY "Creating Flow file ....."

* Create working Flow file. Pipe index is for linking to concentration file.
* Parameter code 50050 is flow; units code 03 is MGD. All flow values should
* be in MGD; any that aren't are not used.

CREATE npdes\nflowext FROM npdes\flowstru
INDEX ON npdes + pipe_num TAG pipe
SET TALK ON
APPEND FROM npdes\npdesint FOR param_code = "50050" .AND. param_units = "03"

```



```
SET TALK OFF
@ 10,0 CLEAR
CLOSE DATABASE
@ 9,43 SAY "Done"
```

* Create working Concentration file.

```
@ 11,11 SAY "Creating Concentration file ..."
CREATE npdes\nconcxct FROM npdes\concstru
```

* Create index on NPDES number, conditional on it being nonstandard (i.e., not matching standard format of NC followed by numbers). The index will be used later in cleaning up nonstandard NPDES numbers.

```
INDEX ON npdes TAG npdes_c FOR .NOT. like("NC*",npdes) .OR. "0" $ npdes
```

* Create unique index on NPDES number. The index will be used later in creating new VFAC records for unmatched facilities.

```
INDEX ON npdes TAG npdes_u UNIQUE
```

* Create index on parameter code, conditional on no chemical match found. The index will be used in chemical matching.

```
INDEX ON param_code TAG param_c FOR chem_mis
```

* Create index unique to pipe and parameter. The index will be used in emissions conversion.

```
INDEX ON npdes + pipe_num + param_code + param_name TAG pipeparamu UNIQUE
```

* Create index on pipe and parameter, but not unique. The index will be used in emissions conversion.

```
INDEX ON npdes + pipe_num + param_code + param_name TAG pipeparam
```

* Copy records with nonzero concentration values from intermediate data file. Parameter code 50050 is flow; all others are concentration or loading values.

```
SET TALK ON
APPEND FROM npdes\npdesint FOR param_code <> "50050" .AND. avg > 0
SET TALK OFF
@ 12,0 CLEAR
CLOSE DATABASE
@ 11,43 SAY "Done"
```

* Enter year in working Concentration file and bad flow and concentration files.

```
@ 14,11 SAY "Entering year in working file ..."
USE npdes\nconcxct
REPLACE ALL year WITH val("19" + myear)
@ 14,45 SAY "Done"
```

* Clean up NPDES numbers in working Concentration file. This involves replacing capital Os in the NPDES number with zeros. NPDES numbers are not cleaned up in the flow file, since this could result in two flow records for the same facility. Multiple concentration records for the same facility can be weighted and aggregated, but not flows. Therefore, only flow records with good NPDES numbers are used.

```
@ 15,11 SAY "Cleaning up NPDES ids ....."
USE npdes\nconcxct
SCAN FOR "0" $ npdes
```

* Repeat this loop until there are no capital Os in the NPDES number.

```
DO WHILE "0" $ npdes
  REPLACE npdes_1 WITH stuff(npdes,at("0",npdes),1,"0")
```

```

ENDDO

ENDSCAN
@ 15,45 SAY "Done"

* Some NPDES numbers may still be nonstandard even after clean up to change
* capital Os to zeros. This section of the program lets the user examine non-
* standard NPDES numbers and either fix or delete them. This uses the
* conditional index created when the working Concentration file was created.

USE npdes\nconcext ORDER npdes_c
GO TOP                                && Go to the first record with a nonstandard no.

IF .NOT. EOF()                        && If it's at the end of the file, then there are
                                        && no nonstandard NPDES nos. and nothing need be done
    CLEAR
    TYPE npdes\nvwork1.msg            && Displays instructions for resolving nonstandard
                                        && NPDES numbers
    WAIT ""

* Browse the nonstandard NPDES numbers; the user is not allowed to add or
* delete records. The user has the option of either fixing the NPDES number so
* that it is in the standard format or deleting it. Either of these actions
* removes the record from the conditional index. When all records have been
* removed from the index in this way, an error condition results; the ON ERROR
* CLEAR line clears the screen when this happens, effectively ending the
* BROWSE mode.

    ON ERROR CLEAR
    BROWSE NOFOLLOW NOAPPEND NODELETE FIELDS npdes
    ON ERROR

ENDIF

* Restore screen header wiped out by BROWSE command.

CLEAR
@ 0,1 SAY "WRMS DATA VERIFICATION CONVERSION UTILITY"

CLOSE ALL
RETURN && nvwork.prg

* EOF: nvwork.prg

```

nvwork1.msg

WRMS DATA VERIFICATION CONVERSION UTILITY

Directions for cleaning up NPDES ids:

- * You will be shown records with non-standard NPDES ids, i.e., those that don't start with NC. IDs containing capital O instead of zero will also be shown.
- * If the problem is a typo (e.g., MC instead of NC) fix it.
- * Change capital O to zero (0).
- * Press <Ctrl-End> when finished.

Press any key to continue ...

```

*****
*
* Filename: NVFAC.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated: 2/23/93
* Called by:VCONVERT
* Comments: NPDES facility matching routine. NPDES facilities are matched to
* TRIS facilities in WRMS based on NPDES number. If no match is
* found, the NPDES record is deleted. Facilities are only matched
* in the working Concentration file; records in the working Flow
* file that correspond to unmatched facilities will simply be
* ignored during the emissions conversion step.
*****

```

```

* Open working Concentration file and WRMS Facility file. Files are linked on
* NPDES number.

```

```

USE npdes\nconcxct IN 1 ALIAS conc
USE facility IN 2 ORDER npdes ALIAS fac
SET RELATION TO npdes INTO fac

```

```

@ 1,0 CLEAR

```

```

* For all working Concentration file records with a corresponding WRMS Facility
* file record, copy the WRMS Facility ID from the Facility file record to the
* working Concentration file record.

```

```

* SET TALK ON echos the number of records processed to the screen so that the
* user can see the progress of the facility matching.

```

```

@ 9,16 SAY "Assigning FAC_IDs to matched facilities ..."
SET TALK ON
REPLACE conc->fac_id WITH fac->fac_id FOR fac->fac_id <> space(10)
SET TALK OFF
@ 10,0 CLEAR
@ 9,60 SAY "Done"

```

```

* Delete unmatched nonmanufacturing facilities from working Concentration file.

```

```

@ 10,16 SAY "Deleting nonmanufacturing facilities ....."
SET TALK ON
DELETE FOR fac_id = space(10) .AND.;
      (val(left(sic,2)) < 20 .OR. val(left(sic,2)) > 39)
PACK
SET TALK OFF
@ 11,0 CLEAR
@ 10,60 SAY "Done"

```

```

CLOSE ALL
USE npdes\nconcxct IN 1 ORDER npdes_u ALIAS conc
USE facility IN 2 ORDER fac_id ALIAS fac
SET RELATION TO fac_id INTO fac
USE vfac IN 3 ORDER npdes ALIAS vfac

```

```

* Copy facility info for unmatched manufacturing facilities to VFAC.

```

```

@ 11,16 SAY "Creating new facility records ....."
newvfacs = 0
SCAN  && conc
  SELECT vfac
  SEEK conc->npdes
  IF .NOT. found()
    newvfacs = newvfacs + 1
    APPEND BLANK
    REPLACE fac_name WITH conc->fac_name,;
      street_1 WITH conc->street,;
      city WITH conc->city,;

```

```

        county WITH conc->county,;
        zip WITH conc->zip,;
        sic_1 WITH conc->sic,;
        npdes WITH conc->npdes,;
        year_added WITH conc->year
    IF conc->fac_id <> space(10)
        REPLACE contact WITH fac->contact, phone WITH fac->phone
    ENDIF
    @ 11,60 SAY newvfacs PICTURE "999"
ENDIF
SELECT conc
ENDSCAN
@ 11,60 SAY "Done"

* Update status variable to indicate facility matching is complete.

l_fac_done = .T.

@ 22,24 SAY "Facility Match Complete. Press any key to continue ..."
WAIT ""

CLOSE ALL
RETURN && nvfac.prg

* EOF: nvfac.prg

```

```

*****
*
* Filename: NVCHEM.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated: 2/16/93
* Called by:VCONVERT
* Comments: NPDES chemical matching routine. Checks chemicals in working
*           Concentration file for match in WRMS Chemical file and assigns a
*           chemical id.
*
*****

* Initialize variables

m_continue = "Y"                && does user want to continue

* The status variable l_cauto indicates whether the user has completed auto
* chemical matching. If interactive checking of unmatched chemicals is done,
* the whole chemical matching process is complete, as indicated by l_chm_done.

* If the auto chemical match has not been done, do it.

IF .NOT. l_cauto

    DO auto

* Auto chemical match is complete. If chemical matching is not complete
* (because there are unmatched chemicals left) see if the user wants
* to quit and resume later (if they do, the ASK_QUIT procedure will return
* control to VCONVERT).

    IF .NOT. l_chm_done
        DO ask_quit
    ENDIF

ENDIF

* If chemical matching is not done, call procedure to let user check unmatched
* chemicals.

IF .NOT. l_chm_done
    DO mis

* If user quit before chemical matching was done, return control to VCONVERT.

    IF .NOT. l_chm_done
        RETURN
    ENDIF

* Chemical matching is complete; delete records with unmatched chemicals.

    @ 1,0 CLEAR
    @ 12,12 SAY "Deleting unmatched chemicals..."
    USE npdes\nconcxct IN 1 ALIAS conc
    SET TALK ON
    DELETE FOR chem_id = space(10)
    PACK
    @ 13,0 CLEAR
    @ 12,44 SAY "Done"
    CLOSE ALL
ENDIF

RETURN && nvchem.prg

***** PROCEDURE DEFINITIONS *****

PROCEDURE ask_quit

```

```

* See if user wants to quit and resume later.

@ 1,0 CLEAR
@ 8,12 TO 15,66
@ 10,14 SAY "Press Y to continue chemical matching,"
@ 11,14 SAY "Press N to exit and resume chemical matching later."
@ 13,32 SAY "Continue? Y/N:"
@ 13,47 GET m_continue PICTURE "Y"
READ

* If the user does want to quit, return control to VCONVERT.

IF m_continue = "N"
  RETURN TO MASTER
ENDIF

RETURN && ask_quit

*****

PROCEDURE auto

* Initialize variables.

match = 0           && Count number of NPDES concentration records matched
no_match = 0       && Count number of NPDES concentration records not matched
processed = 0      && Count number of NPDES concentration records processed

* Open working Concentration file and WRMS Chemical file.  Files are unlinked.
* Chemical file order is on STORET parameter number.

USE npdes\nconcxct IN 1 ALIAS conc
USE chemical IN 2 ALIAS chem ORDER TAG storet_num
SELECT conc

* Determine total number of NPDES Concentration records to process.

total_recs = reccount("conc")

* Display matching status report on screen.

DO report

* Main loop; processes each record in working Concentration file.

SCAN
  processed = recno("conc")           && Set number of records processed

  SELECT chem

* Look for matching STORET parameter code in WRMS Chemical file.

  SEEK conc->param_code

* If a nonblank match is found, increment match counter and copy chemical ID to
* working Concentration file.

  IF found() .AND. conc->param_code <> space(2)
    match = match + 1
    REPLACE conc->chem_id WITH chem->chem_id

  ELSE

* No match found; increment no match counter and set unmatched flag in working
* Concentration file.

    no_match = no_match + 1
    REPLACE conc->chem_mis WITH .T.

```

```

ENDIF
* Update matching status report on screen.
DO says
* Select working Concentration file for correct functioning of SCAN loop.
SELECT conc
ENDSCAN
* Write final chemical matching status report to file and screen.
SET DEVICE TO FILE npdes\nchmauto.txt
DO report
SET DEVICE TO SCREEN
DO report
* Update status variables
l_cauto = .T.
* IF no chemical were left unmatched, chemical matching is complete; set
* l_chm_done accordingly.
IF no_match = 0
    l_chm_done = .T.
ENDIF
@ 22,19 SAY "Auto Chemical Match Complete. Press any key to continue ..."
WAIT ""
CLOSE ALL
RETURN && auto
*****
PROCEDURE report
* Displays static portion of chemical matching status report on screen.
@ 1,0 CLEAR
@ 4,26 SAY "NPDES DATA CONVERSION"
@ 5,21 SAY "CHEMICAL MATCHING STATUS REPORT"
@ 8,22 SAY "Number of records processed:"
@ 8,52 SAY processed PICTURE "99999"
@ 8,58 SAY "of"
@ 8,61 SAY total_recs PICTURE "99999"
@ 10,24 SAY "Number of records matched:"
@ 10,52 SAY match PICTURE "99999"
@ 12,20 SAY "Number of records not matched:"
@ 12,52 SAY no_match PICTURE "99999"
RETURN && report
*****
PROCEDURE says
* Displays dynamic portion of chemical matching status report (counter
* variables).
@ 8,52 SAY processed PICTURE "99999"
@ 10,52 SAY match PICTURE "99999"
@ 12,52 SAY no_match PICTURE "99999"
RETURN && says

```

PROCEDURE mis

- * User checks unmatched chemicals and either assigns a correct chemical ID from a printed list.
- * Open working Concentration file. The index is conditional on the unmatched flag being true, so only unmatched chemicals are shown.

USE npdes\nconcxct IN 1 ORDER param_c ALIAS conc

- * Display instructions for resolving unmatched chemicals.

CLEAR
TYPE npdes\nvchem1.msg
WAIT ""

- * BROWSE the unmatched chemicals; the user is not allowed to add records.
- * The user will change the unmatched flag to False as each chemical is resolved by assigning a chemical ID. Changing the unmatched flag to False removes a record from the conditional index. When all records have been removed from the index in this way, an error condition results; the ON ERROR CLEAR line clears the screen when this happens, effectively ending the BROWSE. The user may also exit the Browse with Esc or Ctrl-End before all unmatched chemicals have been dealt with.

ON ERROR CLEAR
BROWSE NOAPPEND NOFOLLOW FIELDS chem_mis, chem_id, param_code /r, param_name /r
ON ERROR

- * Restore header wiped out by BROWSE.

CLEAR
@ 0,1 SAY "WRMS DATA VERIFICATION CONVERSION UTILITY"

- * See if any unmatched chemicals remain (user may have exited before all were matched).

LOCATE FOR chem_mis

- * If no unmatched chemicals are found, then chemical matching is done.

IF .not. found()

l_chm_done = .T.

- * Copy STORET numbers for manually matched chemicals to the Chemical file.

@ 1,0 CLEAR
@ 12,12 SAY "Copying STORET numbers to Chemical file..."
SET ORDER TO
USE chemical IN 2 ORDER chem_id ALIAS chem
SET RELATION TO chem_id INTO chem
SET TALK ON
REPLACE chem->storet_num WITH param_code FOR chem->storet_num = space(5)
SET TALK OFF
@ 12,54 SAY "Done"

ENDIF

CLOSE ALL
RETURN && mis

- * EOF: nvchem.prg

nvchem1.msg

WRMS DATA VERIFICATION CONVERSION UTILITY

Directions for resolution of unmatched chemical parameters:

- * Unmatched NPDES records will be displayed, indexed on param_code.
- * You will only be able to edit the chem_id and chem_mis fields.
- * Look up the correct chem_id in the alphabetical listing of the WRMS chemical file and enter it in the chem_id field. Change the chem_mis field to F (False).
- * If a parameter is not in the WRMS chemical file, change chem_mis to F for all records containing that chemical, but do not enter a chem_id.
- * Press <Ctrl-End> when finished.

Press any key to continue ...

```

*****
*
* Filename: NVEMISS.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated: 3/2/93
* Called by:VCONVERT
* Comments: Converts emissions data from NPDES to WRMS format. Assumes all
*           facilities and chemicals have been correctly matched. Creates
*           1 Emission record from 1 or more working Concentration records.
*
*****

* Open data base files: working Concentration and Flow files and units
* conversionfactor file. Concentration and Flow files are linked on NPDES
* number and pipe; Concentration and units conversion files are linked on
* parameter units code.

USE npdes\nconcxct IN 1 ALIAS conc
USE npdes\nflowext IN 2 ORDER pipe ALIAS flow
USE npdes\nunitcode IN 3 ORDER unit_code ALIAS units
SET RELATION TO npdes + pipe_num INTO flow
SELECT flow
SET RELATION TO conc->param_unit INTO units
SELECT conc

* Calculate annual emissions from concentration and flow using conversion
* factors in Unitcode file. The flowfactor field is 1 if flow needs to be
* included in the calculation (e.g., if avg is in concentration units like
* mg/l) and 0 if it does not (e.g., if avg is already in emission units, like
* lbs/day). The calculated emission is placed in the emiss field of the
* working Concentration file.

@ 1,0 CLEAR
@ 9,19 SAY "Calculating emissions ....."
SET TALK ON
REPLACE ALL emiss WITH conc->avg * iif(units->flowfactor=1,flow->avg,1) *;
                        units->conversion
REPLACE flow_na WITH .T. FOR units->flowfactor = 1 .AND. flow->avg = 0
SET TALK OFF
@ 10,0 CLEAR
@ 9,56 SAY "Done"

* Close files and reopen working Concentration file.

CLOSE ALL
USE npdes\nconcxct IN 1 ALIAS conc

* Data base in use is working Concentration file. This file may contain
* multiple records for a specific NPDES number, pipe, and parameter if data
* were originally reported in two different units. These have now been
* converted to emissions with common units, and need to be combined.

* Create a new data base file with one blank record per pipe and parameter
* to hold emissions averaged across different units.

@ 11,19 SAY "Creating intermediate file ....."

SET ORDER TO pipeparamu  && order = npdes+pipe_num+param_code+param_name UNIQUE
SET TALK ON
COPY TO npdes\nconcxvg
SET TALK OFF
@ 12,0 CLEAR
@ 11,56 SAY "Done"

USE npdes\nconcxvg IN 1 ALIAS avg
BLANK ALL FIELDS param_unit, avg, emiss, weight

```

```

USE npdes\nconcxct IN 2 ORDER pipeparam ALIAS conc

@ 12,19 SAY "Averaging across units ....."
loopavg = 0
SCAN && avg
  loopavg = loopavg + 1
  @ 12,56 SAY loopavg PICTURE "9999"
  sum_emiss = 0
  sum_weight = 0
  missing_wt = .F.
  mflow_na = .F.
  SELECT conc
  SET KEY TO avg->npdes + avg->pipe_num + avg->param_code + avg->param_name
  COUNT TO num_conc
  GO TOP
  IF num_conc = 1          && only one conc record; averaging not needed
    SELECT avg
    REPLACE emiss WITH conc->emiss,;
      flow_na WITH conc->flow_na
  ELSE
    && more than one conc records to be averaged
    IF num_conc > 1
      SCAN && conc
      IF weight = 0          && weight missing
        missing_wt = .T.
        EXIT
      ELSE
        && weight not missing
        sum_emiss = sum_emiss + emiss * weight
        sum_weight = sum_weight + weight
        mflow_na = (mflow_na .OR. flow_na)
      ENDIF
    ENDSCAN && conc

    SELECT avg
    IF .not. missing_wt
      REPLACE emiss WITH sum_emiss/sum_weight,;
        flow_na WITH mflow_na
    ELSE
      REPLACE weight_na WITH .T.
    ENDIF
  ENDIF
ENDSCAN && avg

@ 12,56 SAY "Done"

CLOSE ALL

* Aggregate emissions to NPDES number level (across pipes) and enter in
* Emission file.

* Initialize variables.

processed = 0          && Count number of average concentration records processed.
added = 0              && Count number of Emission records created.

* Open files: average concentration file and Emission file. Files are unlinked.
* Average concentration file is selected.

USE npdes\nconcxct IN 1 ALIAS avg
USE vemiss IN 2 ORDER source_yr ALIAS em    && order = npdes+param_code+year

* Display static portions of emission conversion status report

@ 1,0 CLEAR
@ 4,26 SAY "NPDES DATA CONVERSION"
@ 5,22 SAY "EMISSION UPDATE STATUS REPORT"
@ 9,19 SAY "Number of records processed:      of"
@ 9,48 SAY "      0"

```

```

@ 9,56 SAY reccount("avg") PICTURE "9999"
@ 11,19 SAY "Number of EMISSION records created:"
@ 11,56 SAY " 0"

* Process all average concentration file records.

SCAN

* See if an Emission record already exists for the current NPDES number and
* parameter.

SELECT em
SEEK avg->npdes + avg->param_code + str(avg->year,4)

* If no Emission record is found, create one and fill it in from the average
* concentration record.

IF .NOT. found()
  APPEND BLANK
  REPLACE em->source WITH "N",;
           em->source_id WITH avg->npdes,;
           em->fac_id WITH avg->fac_id,;
           em->chem_id WITH avg->chem_id,;
           em->year WITH avg->year,;
           em->water_amt WITH avg->emiss,;
           em->flow_na WITH avg->flow_na,;
           em->weight_na WITH avg->weight_na
           .
  added = added + 1
  @ 11,56 SAY added PICTURE "9999"

* If an Emission record is found, add the emission amount from the average
* concentration file to the quantity already in the water amount field in the
* Emission file.

ELSE
  REPLACE em->water_amt WITH em->water_amt + avg->emiss,;
           em->flow_na WITH (em->flow_na .OR. avg->flow_na),;
           em->weight_na WITH (em->weight_na .OR. avg->weight_na)
ENDIF

* Reselect the average concentration file for correct functioning of SCAN loop.

SELECT avg
processed = processed + 1
@ 9,48 SAY processed PICTURE "9999"
ENDSCAN

* All average concentration records have been processed. Update status variable
* to indicate emission conversion is complete.

l_emiss = .T.

CLOSE ALL

* Delete working files. Files containing bad concentration and flow data are
* not deleted, but saved for possible future use.

@ 1,0 CLEAR
@ 9,12 SAY "Deleting working files ..."

DELETE FILE npdes\npdesint.dbf      && intermediate working file
DELETE FILE npdes\nconcent.dbf     && working Concentration file
DELETE FILE npdes\nconcent.mdx     && working Concentration file index
DELETE FILE npdes\nflowext.dbf     && working Flow file
DELETE FILE npdes\nflowext.mdx     && working Flow file index
DELETE FILE npdes\nconcentavg.dbf  && average concentration file
DELETE FILE npdes\nconcentavg.mdx  && average concentration file index
DELETE FILE npdes\nvstatus.mem     && Saved status variables

```

DELETE FILE npdes\nchmauto.txt && Final chemical matching status report

@ 9,39 SAY "Done"

* Display message that data conversion is complete.

@ 1,0 CLEAR

@ 9,25 TO 13,53 DOUBLE

@ 11,27 SAY "Data conversion complete."

@ 22,50 SAY "Press any key to continue ..."

WAIT ""

RETURN && nvemiss

* EOF: nvemiss.prg

```

*****
*
* Filename: PVWORK.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated: 2/23/93
* Called by:VCONVERT
* Comments: Creates working Pretreatment files for conversion program, with
*           structure extended to include fields used in processing. Also
*           cleans up some fields.
*****

* Initialize status variables.

l_fac_done = .F.          && Facility matching done
l_chm_done = .F.          && Chemical matching done
l_emiss = .F.             && Emissions conversion done

* Initialize other variable.

myear = space(2)          && Year to be converted

* Ask for year being converted.

@ 1,0 CLEAR
SET CONFIRM ON
@ 9,20 SAY "Enter year of data being converted: 19"
@ 9,58 GET myear PICTURE "99"
READ
SET CONFIRM OFF

* Create working data file PREEXT.DBF from saved structure PRESTRU.DBF

@ 1,0 CLEAR
@ 8,11 SAY "Creating working file ....."

CREATE pretreat\preext FROM pretreat\prevstru

* Create index on city and facility name. This index will be used manually
* to match pretreatment facilities to TRIS facilities.

INDEX ON city + fac_name TAG city_fac

* Create unique index on pretreatment ID (POTW NPDES number plus IU number).
* This index will be used to create new VFAC records.

INDEX ON potw_npdes + iu_num TAG potw_iu_u UNIQUE

* Add records from the original data file to the working data file.

SET TALK ON
APPEND FROM pretreat\pretreat.dat TYPE SDF
SET TALK OFF
@ 9,0 CLEAR
CLOSE DATABASE

@ 8,45 SAY "Done"

* Enter year being converted to working file.

@ 10,11 SAY "Entering year in working file ..."
USE pretreat\preext
REPLACE ALL year WITH val("19" + myear)
@ 10,45 SAY "Done"

CLOSE ALL
RETURN && pvwork.prg
* EOF: pvwork.prg

```

```

*****
*
* Filename: PVFAC.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated: 2/24/93
* Called by:VCONVERT
* Comments: Pretreatment data facility matching routine. Pretreatment
* facilities are matched to TRIS facilities in WRMS based on the
* Pretreatment ID.
*
*****

* Open working file and WRMS Facility file. Files are linked on pretreatment
* ID (POTW NPDES number plus facility IU number).

USE pretreat\preext IN 1 ALIAS pre
USE facility IN 2 ORDER pre_id ALIAS fac
SET RELATION TO potw_npdes + iu_num INTO fac

* Copy facility ID from Facility to working pretreatment data file for matching
* Pretreatment IDs.

@ 1,0 CLEAR
@ 9,16 SAY "Assigning FAC_IDs to matched facilities ..."

SET TALK ON
REPLACE pre->fac_id WITH fac->fac_id FOR fac->fac_id <> space(10);
.AND. potw_npdes <> space(9)
SET TALK OFF

@ 10,0 CLEAR
@ 9,60 SAY "Done"

* Close files and reopen working Pretreatment file.

CLOSE ALL
USE pretreat\preext IN 1 ALIAS pre

* Delete unmatched nonmanufacturing facilities from working pretreatment file.

@ 1,0 CLEAR
@ 10,16 SAY "Deleting nonmanufacturing facilities ....."
SET TALK ON
DELETE FOR fac_id = space(10) .AND.;
(val(left(sic,2)) < 20 .OR. val(left(sic,2)) > 39)
PACK
SET TALK OFF
@ 11,0 CLEAR
@ 10,60 SAY "Done"

CLOSE ALL

USE pretreat\preext IN 1 ORDER potw_iu_u ALIAS pre
USE facility IN 2 ORDER fac_id ALIAS fac
SET RELATION TO fac_id INTO fac
USE vfac IN 3 ORDER pre_id ALIAS vfac

* Copy facility information for unmatched manufacturing facilities to VFAC.

@ 11,16 SAY "Creating new facility records ....."
newvfacs = 0
SCAN && preext
SELECT vfac
SEEK pre->potw_npdes + pre->iu_num
IF .NOT. found()
newvfacs = newvfacs + 1
APPEND BLANK
REPLACE fac_name WITH pre->fac_name,;

```



```

        street_1 WITH pre->address,;
        city WITH pre->city,;
        zip WITH pre->zip,;
        sic_1 WITH pre->sic,;
        pre_id WITH pre->potw_npdes + pre->iu_num,;
        year_added WITH pre->year
    IF pre->fac_id <> space(10)
        REPLACE county WITH fac->county,;
        contact WITH fac->contact,;
        phone WITH fac->phone
    ENDIF
    @ 11,60 SAY newvfacs PICTURE "999"
    ENDIF
    SELECT pre
    ENDSCAN
    @ 11,60 SAY "Done"
    CLOSE ALL

* Update status variable to indicate facility matching is complete.

l_fac_done = .T.
@ 22,24 SAY "Facility Match Complete. Press any key to continue ..."
WAIT ""

RETURN && pvfac.prg

* EOF: pvfac.prg

```

```
*****
*
* Filename: PVCHEM.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated:
* Called by:VCONVERT
* Comments: Chemical matching is not necessary with the Pretreatment data;
*           each of the chemicals is reported in a separate field. Chemical
*           IDs are assigned in the emission conversion program module.
*
*****
```

* Display message indicating that chemical matching is unnecessary.

```
@ 1,0 CLEAR
@ 9,21 TO 14,52 DOUBLE
@ 11,23 SAY "It is not necessary to Match"
@ 12,23 SAY "Chemicals with these data."
@ 22,50 SAY "Press any key to continue ..."
WAIT ""
```

* Update status variable to indicate chemical matching is done.

```
l_chm_done = .T.
```

```
RETURN && pvchem.prg
```

```
* EOF: pvchem.prg
```

```

*****
*
* Filename: PVEMISS.PRG
* Author: Anne E. Crook, Research Triangle Institute
* Created: 2/15/93 Last updated: 3/2/93
* Called by:VCONVERT
* Comments: Converts emissions data from Pretreatment to WRMS format. Assumes
*           all facilities have been correctly matched. Creates up to 20
*           Emission records from 1 working pretreatment record (one per
*           chemical).
*
*****

```

```

* Open data bases: Vemiss and working pretreatment data file. Working
* pretreatment data file is selected.

```

```

USE vemiss IN 1 ALIAS em
USE pretreat\preext IN 2 ALIAS pre
SELECT pre

```

```

* Initialize variables.

```

```

added_em = 0          && Count Emission records added

```

```

* Display static portions of emission conversion status report

```

```

@ 1,0 CLEAR
@ 4,21 SAY "PRETREATMENT DATA CONVERSION"
@ 5,21 SAY "EMISSION UPDATE STATUS REPORT"
@ 9,15 SAY "Number of records processed:      of"
@ 9,47 SAY "0"
@ 9,52 SAY reccount("pre") PICTURE "9999"
@ 11,15 SAY "Number of EMISSION records added:"
@ 11,52 SAY "0"

```

```

* Process each pretreatment record.

```

```

SCAN && pre

```

```

* Add records to Emission and fill in data from working pretreatment file,
* using flow and concentration to calculate emissions in pounds per year.

```

```

SELECT em

```

```

* Create Emission records only if the working pretreatment file has a nonzero
* concentration value.

```

```

* Phenol

```

```

IF pre->mphe > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
           em->source_id WITH pre->potw_npdes+pre->iu_num,;
           em->fac_id WITH pre->fac_id,;
           em->year WITH pre->year,;
           em->chem_id WITH "CPHEN00808",;
           em->potw_amt WITH pre->mflow * pre->mphe * 3.05,;
           em->flow_na WITH (pre->mflow = 0)
  added_em = added_em + 1
  @ 11,49 SAY added_em PICTURE "9999"
ENDIF

```

```

* Silver

```

```

IF pre->mag > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
           em->source_id WITH pre->potw_npdes+pre->iu_num,;

```

```

        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CSILV00903",;
        em->potw_amt WITH pre->mflow * pre->mag * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF
* Aluminum

IF pre->mal > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CALUM00034",;
        em->potw_amt WITH pre->mflow * pre->mal * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF
* Arsenic

IF pre->mas > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CARSE00106",;
        em->potw_amt WITH pre->mflow * pre->mas * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF
* Cadmium

IF pre->mcd > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CCADM00255",;
        em->potw_amt WITH pre->mflow * pre->mcd * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF
* Cobalt

IF pre->mco > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CCOBA00335",;
        em->potw_amt WITH pre->mflow * pre->mco * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF

```

* Chromium, total

```
IF pre->mcr_tot > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
    em->chem_id WITH "CCHRO00332",;
    em->potw_amt WITH pre->mflow * pre->mcr_tot * 3.05,;
    em->flow_na WITH (pre->mflow = 0)
  added_em = added_em + 1
  @ 11,49 SAY added_em PICTURE "9999"
ENDIF
```

* Copper

```
IF pre->mcu > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
    em->chem_id WITH "CCOPP00344",;
    em->potw_amt WITH pre->mflow * pre->mcu * 3.05,;
    em->flow_na WITH (pre->mflow = 0)
  added_em = added_em + 1
  @ 11,49 SAY added_em PICTURE "9999"
ENDIF
```

* Mercury

```
IF pre->mhg > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
    em->chem_id WITH "CMERC00681",;
    em->potw_amt WITH pre->mflow * pre->mhg * 3.05,;
    em->flow_na WITH (pre->mflow = 0)
  added_em = added_em + 1
  @ 11,49 SAY added_em PICTURE "9999"
ENDIF
```

* Magnesium - not a TRI chemical

```
* IF pre->mmg > 0
*   APPEND BLANK
*   REPLACE em->source WITH "P",;
*     em->source_id WITH pre->potw_npdes+pre->iu_num,;
*     em->fac_id WITH pre->fac_id,;
*     em->year WITH pre->year,;
*     em->chem_id WITH "CMAGNXXXXXX",;
*     em->potw_amt WITH pre->mflow * pre->mmg * 3.05,;
*     em->flow_na WITH (pre->mflow = 0)
*   added_em = added_em + 1
*   @ 11,49 SAY added_em PICTURE "9999"
*   ENDIF
```

* Manganese

```
IF pre->mmn > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
```

```

        em->chem_id WITH "CMANG00666",;
        em->potw_amt WITH pre->mflow * pre->mmn * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Nickel

IF pre->mni > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CNICK00749",;
        em->potw_amt WITH pre->mflow * pre->mni * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Lead

IF pre->mpb > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CLEAD00637",;
        em->potw_amt WITH pre->mflow * pre->mpb * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Selenium

IF pre->mse > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CSELE00895",;
        em->potw_amt WITH pre->mflow * pre->mse * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Zinc

IF pre->mzn > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CZINC01044",;
        em->potw_amt WITH pre->mflow * pre->mzn * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Toluene

```

```

IF pre->mtol > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
    em->chem_id WITH "CTOLU00154",;
    em->potw_amt WITH pre->mflow * pre->mtol * 3.05,;
    em->flow_na WITH (pre->mflow = 0)
  added_em = added_em + 1
  @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Barium

IF pre->mba > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
    em->chem_id WITH "CBARI00123",;
    em->potw_amt WITH pre->mflow * pre->mba * 3.05,;
    em->flow_na WITH (pre->mflow = 0)
  added_em = added_em + 1
  @ 11,49 SAY added_em PICTURE "9999"
ENDIF .

* Antimony

IF pre->msb > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
    em->chem_id WITH "CANTI00088",;
    em->potw_amt WITH pre->mflow * pre->msb * 3.05,;
    em->flow_na WITH (pre->mflow = 0)
  added_em = added_em + 1
  @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Formaldehyde

IF pre->mchoh > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
    em->chem_id WITH "CFORM00575",;
    em->potw_amt WITH pre->mflow * pre->mchoh * 3.05,;
    em->flow_na WITH (pre->mflow = 0)
  added_em = added_em + 1
  @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Chlorine

IF pre->mchlor > 0
  APPEND BLANK
  REPLACE em->source WITH "P",;
    em->source_id WITH pre->potw_npdes+pre->iu_num,;
    em->fac_id WITH pre->fac_id,;
    em->year WITH pre->year,;
    em->chem_id WITH "CCHLO00298",;
    em->potw_amt WITH pre->mflow * pre->mchlor * 3.05,;

```

```

        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Cyanide

IF pre->mcn > 0
    APPEND BLANK
    REPLACE em->source WITH "P",;
        em->source_id WITH pre->potw_npdes+pre->iu_num,;
        em->fac_id WITH pre->fac_id,;
        em->year WITH pre->year,;
        em->chem_id WITH "CCYAN00366",;
        em->potw_amt WITH pre->mflow * pre->mcn * 3.05,;
        em->flow_na WITH (pre->mflow = 0)
    added_em = added_em + 1
    @ 11,49 SAY added_em PICTURE "9999"
ENDIF

* Update status report.

    @ 9,44 SAY recno("pre") PICTURE "9999"
    SELECT pre

ENDSCAN && pre

* Update status variable to indicate emission conversion is done.

l_emiss = .T.

CLOSE ALL

* Delete working files.

@ 1,0 CLEAR
@ 10,12 SAY "Deleting working files ..."
DELETE FILE pretreat\preext.dbf          && working data file
DELETE FILE pretreat\preext.mdx         && working data file index
DELETE FILE pretreat\pvstatus.mem       && saved status variables

@ 10,39 SAY "Done"

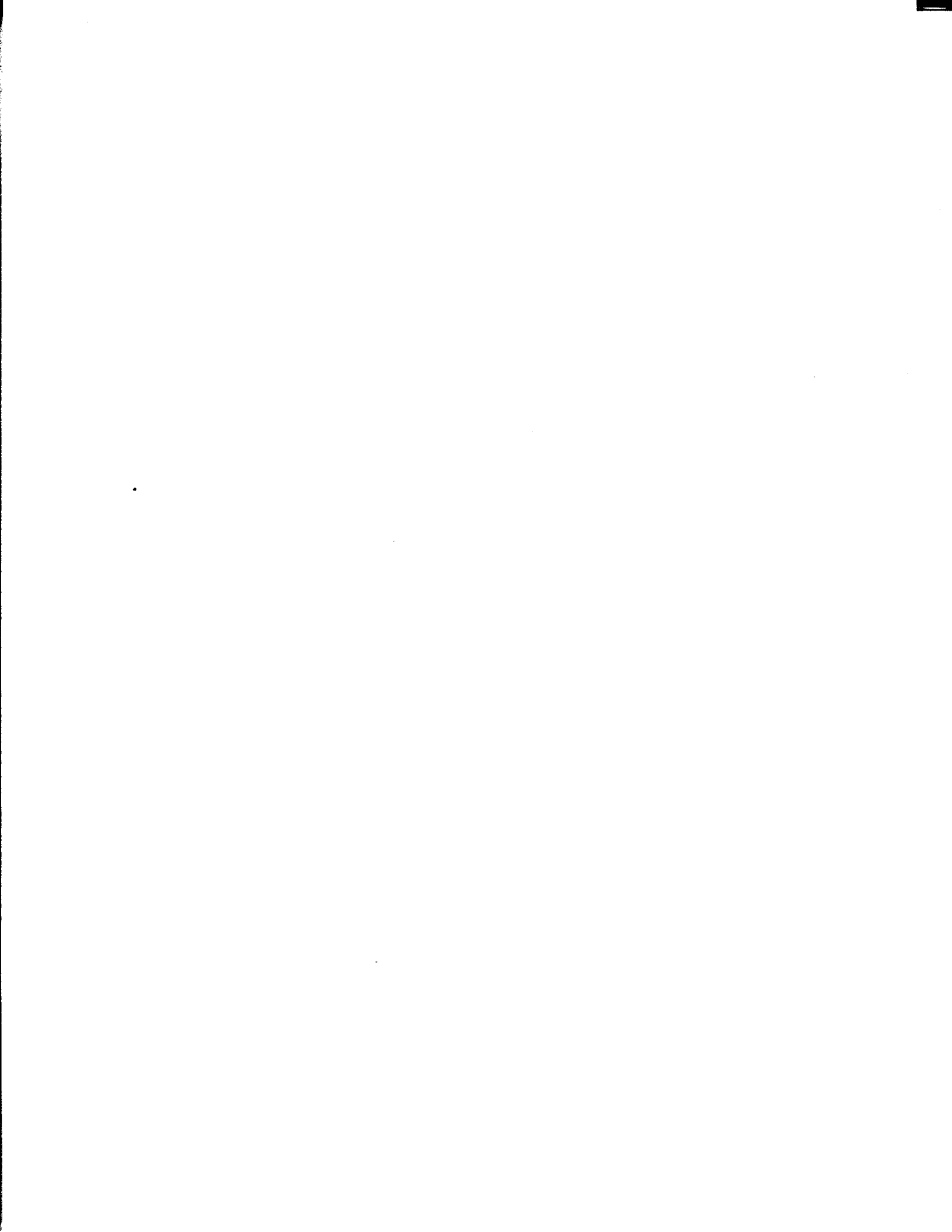
@ 1,0 CLEAR
@ 9,25 TO 13,53 DOUBLE
@ 11,27 SAY "Data conversion complete."
@ 22,50 SAY "Press any key to continue ..."
WAIT ""

RETURN && pvemiss

* EOF: pvemiss.prg

```


APPENDIX B
PROGRAM CODE FOR TASK6.PRG



```

* File name: task6.prg
* Author: Anne Crook, Research Triangle Institute
* Created: 2/26/93 Updated: 4/14/93

* Make memory variables accessible to all procedures.

PUBLIC cyear, nyear, data, avail, ord_field, em_field, vem_field, rnge_field

* Initialize environment and variables

DO initial

* Get year and type of data to compare

DO getdata

* Check availability of data selected.

DO checkdata

* If data are available, generate discrepancy reports.

IF avail
  DO xdata
  DO discrep
ENDIF

* Reset environment.

CLOSE ALL
SET TITLE ON
SET SAFETY ON
SET TALK ON

RETURN && t6.prg

***** PROCEDURE DEFINITIONS *****

PROC initial
* Initialize environment and variables

  SET TITLE OFF
  SET SAFETY OFF
  SET TALK OFF
  cyear = space(2)
  nyear = 0
  data = space(1)
RETURN

*****

PROC getdata
* Get year and type of data to compare, then set assorted variables according
* to the choice.
* Any variables set here must be in the PUBLIC statement at the beginning of
* the program!

  @ 0,0 CLEAR
  SET CONFIRM ON
  @ 8,20 SAY "Enter data to compare:"
  @ 9,20 SAY "A=AIRS, N=NPDES, P=Pretreatment"
  @ 8,43 GET data PICTURE "@M N,P,A"
  @ 11,20 SAY "Enter year to compare: 19"
  @ 11,45 GET cyear PICTURE "99"
  READ
  SET CONFIRM OFF
  nyear = 1900 + val(cyear)
  DO CASE

```

```

CASE data = "A"
  ord_field = "air_id"
  em_field = "stack_em"
  vem_field = "stack_vem"
  rng_field = "stack_rng"
CASE data = "N"
  ord_field = "npdes"
  em_field = "water_em"
  vem_field = "water_vem"
  rng_field = "water_rng"
CASE data = "P"
  ord_field = "pre_id"
  em_field = "potw_em"
  vem_field = "potw_vem"
  rng_field = "potw_rng"
ENDCASE
RETURN

*****

PROC checkdata
* Check availability of data selected.

USE vemiss
LOCATE FOR source = data .AND. year = nyear
avail = found()
IF .not. avail
  @ 0,0 CLEAR
  @ 7,18 TO 11,54 DOUBLE
  @ 9,20 SAY "No data available for comparison."
  @ 21,50 SAY "Press any key to continue..."
  WAIT ""
ENDIF
CLOSE ALL
RETURN

*****

PROC xdata
* Extract data from Emission and Vemiss needed for discrepancy checks

* Extract TRI records from Emission for appropriate year.

TEXT
Extracting TRI records
ENDTEXT

USE emission
COPY TO t6&data.1 FOR source = "T" .AND. year = nyear;
      FIELDS fac_id, chem_id, year, source_id
* Extract single-media records from Vemiss for the appropriate year.

TEXT
Extracting single-media records
ENDTEXT

USE vemiss
COPY TO t6&data.2 FOR source = data .AND. year = nyear;
      FIELDS fac_id, chem_id, year, source_id

CLOSE ALL

RETURN

*****

PROC discrep
* Generate discrepancy report.

```

```
TEXT
Combining TRI and single-media data
ENDTEXT
```

```
USE t6&data.1
APPEND FROM t6&data.2 FOR fac_id <> space(10)
INDEX ON fac_id + chem_id TAG fac_chm_u UNIQUE
COPY TO t6&data.3
USE t6&data.3
BLANK ALL FIELDS source_id

USE t6&data.2
DELETE FOR fac_id <> space(10)
PACK
INDEX ON source_id + chem_id TAG fac_chm_u UNIQUE
COPY TO t6&data.4
```

* Create a file with additional fields.

```
CREATE t6&data.5 FROM t6stru
APPEND FROM t6&data.3
APPEND FROM t6&data.4
```

* T6&data.5 should now have one record per facility and chemical reported in
* either TRI or single media data base.

* Sum emissions data for each facility and chemical reported to TRI to the
* summary file. (Usually there is only one emission record per facility and
* chemical, but occasionally two records are reported; these are summed here.)

```
TEXT
Summing TRI emissions
ENDTEXT
```

```
USE t6&data.5 IN 1 ALIAS t6
USE emission IN 2 ORDER fac_chm_yr ALIAS em
SET RELATION TO fac_id + chem_id + str(year,4) INTO em
SET SKIP TO em
REPLACE stack_em WITH stack_em + em->stack_amt,;
       water_em WITH water_em + em->water_amt,;
       potw_em WITH potw_em + em->potw_amt,;
       stack_rnge WITH (stack_rnge .OR. em->stack_rnge),;
       water_rnge WITH (water_rnge .OR. em->water_rnge),;
       potw_rnge WITH (potw_rnge .OR. em->potw_rnge);
FOR em->fac_id <> space(10)
```

* Sum emissions data for each facility and chemical reported to the single-
* media data base to the summary file.

```
TEXT
Summing single-media emissions
ENDTEXT
```

* For facilities with FAC_IDs

```
USE vemiss IN 2 ORDER fac_chm_yr ALIAS vem
SET RELATION TO fac_id + chem_id + str(year,4) INTO vem
SET FILTER TO vem->source = data
REPLACE stack_vem WITH vem->stack_amt, water_vem WITH vem->water_amt,;
       potw_vem WITH vem->potw_amt, flow_na WITH vem->flow_na,;
       weight_na WITH vem->weight_na;
FOR vem->fac_id <> space(10)
```

* For facilities without FAC_IDs

```
USE vemiss IN 2 ORDER src_chm_yr ALIAS vem
SET RELATION TO source_id + chem_id + str(year,4) INTO vem
SET FILTER TO vem->source = data
```

```
REPLACE stack_vem WITH vem->stack_amt, water_vem WITH vem->water_amt,;
      potw_vem WITH vem->potw_amt, flow_na WITH vem->flow_na,;
      weight_na WITH vem->weight_na;
FOR vem->source_id <> space(18)
```

CLOSE ALL

- * Delete records for which data are missing for single media or reported as a range in TRI

```
TEXT
Deleting records with missing data or range data
ENDTEXT
```

```
USE t6&data.5 IN 1 ALIAS t6
DELETE FOR flow_na .OR. weight_na .OR. &range_field
PACK
CLOSE ALL
```

- * Calculate the difference in quantity reported to TRI and single-media data base.

```
TEXT
Calculating discrepancies
ENDTEXT
```

```
USE t6&data.5 IN 1 ALIAS t6
REPLACE ALL diff_amt WITH abs(&em_field - &vem_field)
```

- * Delete records with discrepancies less than 1,000 lbs

```
TEXT
Deleting records below cutoff
(1,000 lbs for NPDES and AIRS/NEDS; 10,000 lbs for Pretreatment)
ENDTEXT
```

```
IF data = "P"
  DELETE FOR diff_amt < 10000
ELSE
  DELETE FOR diff_amt < 1000
ENDIF
PACK
```

- * The total difference amount is calculated for each facility. Note that the difference amounts are not signed, so that equal but opposite discrepancies will not cancel out.

```
TEXT
Summing discrepancies to facility level
ENDTEXT
```

```
GO TOP
first_rec = 1
DO WHILE .NOT. EOF()
  mfac = fac_id
  msrc = source_id
  SUM diff_amt TO msum WHILE fac_id = mfac .AND. source_id = msrc
  GO first_rec
  REPLACE total_diff WITH msum WHILE fac_id = mfac .AND. source_id = msrc
  first_rec = recno()
ENDDO
```

```
INDEX ON total_diff TAG total_diff DESCENDING
```

- * The summary file now contains only facilities with significant discrepancies.
- * Link it to the facility, and chemical files. Facilities are ordered in descending order of total difference in reported quantity.

```
TEXT
Linking files
ENDTEXT
```

```
SET EXACT ON
```

```
USE t6&data.5 IN 1 ORDER total_diff ALIAS t6
USE facility IN 2 ORDER fac_id ALIAS fac
USE vfac IN 3 ORDER &ord_field ALIAS vfac
USE chemical IN 4 ORDER chem_id ALIAS chem
```

```
SELECT 1
SET RELATION TO t6->fac_id INTO fac
```

```
SELECT 2
SET RELATION TO t6->source_id INTO vfac
```

```
SELECT 3
SET RELATION TO t6->chem_id INTO chem
```

```
SELECT 1
GO TOP
```

```
SET FIELDS TO t6->fac_id, t6->chem_id, t6->year, t6->source_id,;
t6->stack_em, t6->stack_vem, t6->water_em, t6->water_vem,;
t6->potw_em, t6->potw_vem, t6->diff_amt,;
fac->fac_name, fac->street_1, fac->street_2, fac->city,;
fac->county, fac->zip, fac->contact, fac->phone, fac->sic_1,;
fac->air_id, fac->npdes, fac->pre_id,;
vfac->fac_name, vfac->street_1, vfac->city, vfac->county,;
vfac->zip, vfac->contact, vfac->phone, vfac->sic_1,;
vfac->air_id, vfac->npdes, vfac->pre_id,;
chem->cas_num, chem->use_name, chem->storet_num
```

```
* Generate report.
```

```
TEXT
Generating report
ENDTEXT
```

```
_plength = 67
REPORT FORM t6&data TO FILE t6&data.&year..txt
```

```
CLOSE ALL
DELETE FILE t6&data.1.dbf
DELETE FILE t6&data.1.mdx
DELETE FILE t6&data.2.dbf
DELETE FILE t6&data.2.mdx
DELETE FILE t6&data.3.dbf
DELETE FILE t6&data.4.dbf
DELETE FILE t6&data.5.dbf
DELETE FILE t6&data.5.mdx
```

```
RETURN && discrep
```



APPENDIX C
PROGRAM CODE FOR TASK8.PRG



```

* File name: task8.prg
* Author: Anne Crook, Research Triangle Institute
* Created: 3/16/93 Updated: 4/14/93

* List facilities reporting to single-media data bases over the TRI reporting
* threshold but not reporting to TRI.

* Make memory variables accessible to all procedures.

PUBLIC cyear, nyear, data, avail, amt_field, ord_field, em_field, vem_field,;
      rng_e_field, manuf

* Initialize environment and variables

DO initial

* Get year and type of data to compare

DO getdata

* Check availability of data selected.

DO checkdata

* If data are available, generate discrepancy reports.

IF avail.
  DO discrep
ENDIF

* Reset environment.

SET TITLE ON
SET SAFETY ON
SET TALK ON

RETURN  && t8.prg

```

***** PROCEDURE DEFINITIONS *****

```

PROC initial
* Initialize environment and variables

  SET TITLE OFF
  SET SAFETY OFF
  SET TALK OFF
  cyear = space(2)
  nyear = 0
  data = space(1)
RETURN

```

```

PROC getdata
* Get year and type of data to compare, then set assorted variables according
* to the choice.
* Any variables set here must be in the PUBLIC statement at the beginning of
* the program!

@ 0,0 CLEAR
SET CONFIRM ON
@ 8,20 SAY "Enter data to compare:"
@ 9,20 SAY "A=AIRS, N=NPDES, P=Pre-treatment"
@ 8,43 GET data PICTURE "@M N,P,A"
@ 11,20 SAY "Enter year to compare: 19"
@ 11,45 GET cyear PICTURE "99"
READ
SET CONFIRM OFF

```

```

nyear = 1900 + val(cyear)
DO CASE
  CASE data = "A"
    amt_field = "stack_amt"
    ord_field = "air_id"
  CASE data = "N"
    amt_field = "water_amt"
    ord_field = "npdes"
  CASE data = "P"
    amt_field = "potw_amt"
    ord_field = "pre_id"
ENDCASE

DO CASE
  CASE nyear = 1987
    manu = 75000
  CASE nyear = 1988
    manu = 50000
  OTHERWISE
    manu = 25000
ENDCASE
RETURN

*****

PROC checkdata
* Check availability of data selected.

USE vemiss
LOCATE FOR source = data .AND. year = nyear
avail = found()
IF .not. avail
  @ 0,0 CLEAR
  @ 7,18 TO 11,54 DOUBLE
  @ 9,20 SAY "No data available for comparison."
  @ 21,50 SAY "Press any key to continue..."
  WAIT ""
ENDIF
CLOSE ALL
RETURN

*****

PROC discrep
* Generate discrepancy report.

* Extract single-media records from Vemiss for the appropriate year.

TEXT
Extracting single-media records
ENDTEXT

USE vemiss IN 1 ALIAS vemiss
COPY TO t8&data.1 FOR source = data .AND. year = nyear .AND.;
&amt_field >= 10000;
FIELDS source_id, year, fac_id, chem_id

* Delete records that are found in Emission (i.e., that also reported to TRI).

TEXT
Deleting facilities reporting to TRI
ENDTEXT

USE t8&data.1 IN 1 ALIAS t8
USE emission IN 2 ORDER fac_chm_yr ALIAS em
SET RELATION TO fac_id + chem_id + str(year,4) INTO em
DELETE FOR em->fac_id <> space(10)
PACK

```

CLOSE ALL

* This file now indicates the chemicals reported over 10,000 lbs and not reported in TRI.

* Create a file with additional fields

```
CREATE t8&data.2 FROM t8stru
APPEND FROM t8&data.1
```

* Copy emissions from Vemiss

```
USE vemiss IN 2 ORDER src_chm_yr ALIAS vem
SET RELATION TO source_id + chem_id + str(year,4) INTO vem
REPLACE ALL rel_amt WITH vem->&amt_field
CLOSE ALL
```

```
TEXT
Summing releases to facility level
ENDTEXT
```

```
USE t8&data.2 IN 1 ALIAS t8
GO TOP
first_rec = 1
DO WHILE .NOT. EOF()
  msrc = source_id
  SUM rel_amt TO msum WHILE source_id = msrc
  GO first_rec
  mthresh = "Otherwise Used"
  SCAN WHILE source_id = msrc
    mthresh = iif(rel_amt > manuf, "Processed or Manufactured", mthresh)
  ENDSKAN
  GO first_rec
  REPLACE total_amt WITH msum, thresh_ex WITH mthresh WHILE source_id = msrc
  first_rec = recno()
ENDDO
```

```
INDEX ON thresh_ex + str(total_amt,11) TAG thresh_amt DESCENDING
CLOSE ALL
```

* Link to the Vfac and Chemical files.

* Facilities are ordered in descending order of total quantity reported.

```
TEXT
Linking files
ENDTEXT
```

```
SET EXACT ON
```

```
USE t8&data.2 IN 1 ORDER thresh_amt ALIAS t8
USE vfac IN 2 ORDER &ord_field ALIAS vfac
USE chemical IN 3 ORDER chem_id ALIAS chem
```

```
SELECT 1
SET RELATION TO t8->source_id INTO vfac
```

```
SELECT 2
SET RELATION TO t8->chem_id INTO chem
```

```
SELECT 1
GO TOP
```

```
SET FIELDS TO t8->source_id, t8->year, t8->chem_id, t8->fac_id, t8->rel_amt,;
t8->thresh_ex,;
vfac->fac_name, vfac->street_1, vfac->city, vfac->county,;
vfac->zip, vfac->contact, vfac->phone, vfac->sic_1,;
vfac->air_id, vfac->npdes, vfac->pre_id, chem->cas_num,;
chem->use_name, chem->storet_num
```

* Generate report.

TEXT
Generating report

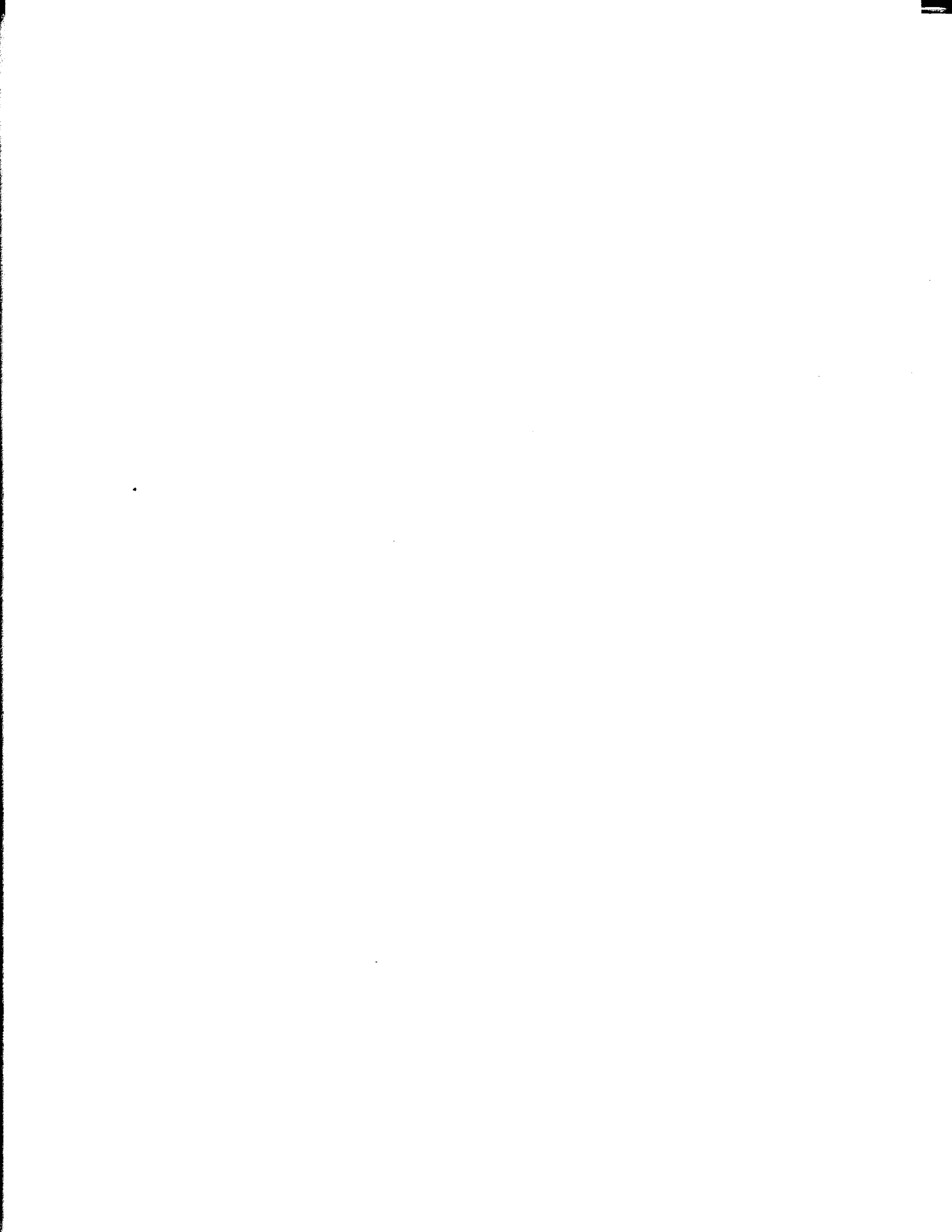
ENDTEXT

_plength = 53
REPORT FORM t8&data TO FILE t8&data.&year..txt

CLOSE ALL
DELETE FILE t8&data.1.dbf
DELETE FILE t8&data.1.mdx
DELETE FILE t8&data.2.dbf
DELETE FILE t8&data.2.mdx

RETURN && discrep

APPENDIX D
PROGRAM CODE FOR TASK7.PRG




```

* File name: task7.prg
* Author: Anne Crook, Research Triangle Institute
* Created: 4/15/93 Updated: 5/28/93

* Make memory variables accessible to all procedures.

```

```

PUBLIC mfirstyear, mlastyear, numyears

```

```

DO initial
DO getyear
DO makefile
DO fillfile
IF numyears > 2
  DO pattern
  DO patt_rpt
ENDIF
DO stop
DO stop_rpt
DO limitrecs
DO calc_discr
DO sum_discrp
DO discrp_rpt
DO reset

```

```

RETURN && t7.prg

```

```

*****PROCEDURE DEFINITIONS*****

```

```

PROC initial
* Initialize environment and variables

```

```

  SET TITLE OFF
  SET SAFETY OFF
  SET TALK OFF

```

```

RETURN

```

```

PROC reset
* Reset environment.

```

```

  SET TITLE ON
  SET SAFETY ON
  SET TALK ON
  DO delfiles

```

```

RETURN

```

```

PROC delfiles
* Delete working files

```

```

  DELETE FILE t71.dbf
  DELETE FILE t71.mdx
  DELETE FILE t72.dbf
  DELETE FILE t73.dbf

```

```

RETURN

```

```

PROC getyear
* Get years of data to compare. If more than 5 available, ask user for start
* year.

```

```

TEXT
Determining years of data for analysis
ENDTEXT

```

```

USE emission ORDER yr_chem
SET FILTER TO source = "T"
GO TOP
mfirstyear = year
GO BOTTOM
mlastyear = year
numyears = mlastyear - mfirstyear + 1
IF numyears > 5
  DO askyear
ENDIF
CLOSE ALL
RETURN
*****

```

```

PROC askyear
* Ask user for start year. Default gives last 5 years of data.

```

```

  askyear = mlastyear - 4
  @ 0,0 CLEAR
  SET CONFIRM ON
  @ 6, 6 TO 15,73 DOUBLE
  @ 7, 8 SAY "The trend analysis can only accomodate 5 years of data."
  @ 8, 8 SAY "WRMS currently contains"
  @ 8,32 SAY numyears PICTURE "99"
  @ 8,35 SAY "years of data, from"
  @ 8,55 SAY mfirstyear PICTURE "9999"
  @ 8,60 SAY "to"
  @ 8,63 SAY mlastyear PICTURE "9999"
  @ 8,67 SAY "."
  @ 10, 8 SAY "The analysis will be performed for 5 years, starting with the"
  @ 11, 8 SAY "year entered below. The default starting year shown will result"
  @ 12, 8 SAY "in the analysis of the most recent 5 years of data."
  @ 14, 8 SAY "Please enter the desired starting year:"
  @ 14,48 GET askyear PICTURE "9999" RANGE mfirstyear, mlastyear-1
  READ
  SET CONFIRM OFF
  mfirstyear = askyear
  mlastyear = min(mlastyear, askyear + 4)
  numyears = mlastyear - mfirstyear + 1
RETURN

```

```

PROC makefile
* Make the file for doing trend analysis

```

```

TEXT
Getting facility and chemical IDs for analysis
ENDTEXT

```

```

USE emission
IF numyears <= 5
  SET FILTER TO source = "T"
ELSE
  SET FILTER TO source = "T" .AND. ;
  year >= mfirstyear .AND. year <= mlastyear
ENDIF

```

```

GO TOP
COPY TO t71 FIELDS fac_id, chem_id

```

```

USE t71
INDEX ON fac_id + chem_id TAG fac_chm_u UNIQUE
COPY TO t72
CLOSE ALL

```

```

CREATE t73 FROM t7stru
APPEND FROM t72
CLOSE ALL

```

RETURN

PROC fillfile

* Fill in data to trend analysis file from emission.

TEXT

Copying data to analysis file

ENDTEXT

USE t73 IN 1 ALIAS t7

REPLACE ALL first_year WITH mfirstyear, num_years WITH numyears

USE emission IN 2 ORDER fac_chm_yr ALIAS em

loopnum = "1"

loopyear = mfirstyear

DO WHILE loopyear <= mlastyear

@ 21,35 SAY loopyear PICTURE "9999"

SET RELATION TO fac_id + chem_id + str(loopyear,4) INTO em

REPLACE total_amt&loopnum WITH em->fugit_amt + em->stack_amt +;

em->water_amt + em->potw_amt + em->land_amt + em->off_amt;

FOR found("em")

loopnum = str(val(loopnum) + 1,1)

loopyear = loopyear + 1

ENDDO

CLOSE ALL

RETURN *

PROC pattern

* Look for breaks in pattern of reporting

TEXT

Looking for reporting pattern discrepancies

ENDTEXT

USE t73

SCAN

i = "1"

j = "2"

DO WHILE val(i) < numyears

bothblank = isblank(total_amt&i) .AND. isblank(total_amt&j)

bothfull = .NOT. (isblank(total_amt&i) .OR. isblank(total_amt&j))

IF .NOT. (bothblank .OR. bothfull)

REPLACE num_chngs WITH num_chngs + 1

ENDIF

i = str(val(i)+1,1)

j = str(val(j)+1,1)

ENDDO

IF num_chngs > 2 .OR. (num_chngs = 2 .AND. .NOT. isblank(total_amt1))

REPLACE rpt_discrp WITH .T.

ENDIF

ENDSCAN

CLOSE ALL

RETURN

PROC patt_rpt

* Generate pattern discrepancy report

USE t73 IN 1 ALIAS t7

USE facility IN 2 ORDER fac_id ALIAS fac

USE chemical IN 3 ORDER chem_id ALIAS chem

SET RELATION TO t7->fac_id INTO fac

SELECT 2

```
SET RELATION TO t7->chem_id INTO chem
SELECT 1
```

```
SET FIELDS TO t7->fac_id, t7->chem_id, t7->first_year, t7->num_years,;
t7->total_amt1, t7->total_amt2, t7->total_amt3,;
t7->total_amt4, t7->total_amt5, t7->rpt_discrp,;
fac->fac_name, fac->city,;
chem->use_name
```

```
_plength = 60
REPORT FORM t71 TO FILE t71.txt FOR rpt_discrp
CLOSE ALL
```

```
RETURN
```

```
*****
```

```
PROC stop
* Look for stopped reporting after reporting large quantities
```

```
TEXT
Deleting records with reporting pattern discrepancies
ENDTEXT
```

```
USE t73
DELETE FOR rpt_discrp
PACK
```

```
TEXT
Looking for stopped reporting discrepancies
ENDTEXT
```

```
SCAN
  IF num_chngs = 2 .OR. (num_chngs = 1 .AND. .NOT. isblank(total_amt1))
    i = "1"
    j = "2"
    stopped = .F.
    DO WHILE val(i) < num_years .AND. .NOT. stopped
      stopped = (.NOT. isblank(total_amt&i)) .AND. isblank(total_amt&j)
      IF i = "1" .AND. mfirstyear = 1987
        rpt_thresh = 50000
      ELSE
        rpt_thresh = 25000
      ENDIF
      IF stopped .AND. total_amt&i > rpt_thresh
        REPLACE stop_discr WITH .T., last_amt WITH total_amt&i
      ENDIF
      i = str(val(i)+1,1)
      j = str(val(j)+1,1)
    ENDDO
  ENDIF
ENDSCAN
CLOSE ALL
RETURN
```

```
*****
```

```
PROC stop_rpt
* Generate stopped reporting discrepancy report
```

```
USE t73 IN 1 ALIAS t7
INDEX ON last_amt TAG last_amt DESCENDING
USE facility IN 2 ORDER fac_id ALIAS fac
USE chemical IN 3 ORDER chem_id ALIAS chem
```

```
SET RELATION TO t7->fac_id INTO fac
SELECT 2
SET RELATION TO t7->chem_id INTO chem
```

```

SELECT 1

SET FIELDS TO t7->fac_id, t7->chem_id, t7->first_year, t7->num_years,;
            t7->total_amt1, t7->total_amt2, t7->total_amt3,;
            t7->total_amt4, t7->total_amt5, t7->rpt_discrp,;
            fac->fac_name, fac->city,;
            chem->use_name

    _plength = 76
REPORT FORM t72 TO FILE t72.txt FOR stop_discr
CLOSE ALL

RETURN

*****

PROC limitrecs
* Delete records not suitable for quantity comparison

TEXT
Deleting records with stopped reporting discrepancies
ENDTEXT

USE t73
DELETE FOR stop_discr
PACK

last = str(numyears,1)
nextlast = str(numyears-1,1)

TEXT
Deleting records with only one year of data
ENDTEXT

SCAN
DO CASE
CASE (.NOT. isblank(total_amt1)) .AND. isblank(total_amt2)
DELETE
CASE (.NOT. isblank(total_amt&last)) .AND. isblank(total_amt&nextlast)
DELETE
ENDCASE
ENDSCAN
PACK
CLOSE ALL

RETURN

*****

PROC calc_discr
* Calculate discrepancies between total quantities reported over time

TEXT
Calculating discrepancies
ENDTEXT

USE t73
SCAN
i = "1"
j = "2"
DO WHILE val(i) < numyears
IF .NOT. (isblank(total_amt&i) .OR. isblank(total_amt&j))
discrp =
log10(max(max(total_amt&i, total_amt&j), 1) / max(min(total_amt&i, total_amt&j), 1))
absolute = abs(total_amt&i - total_amt&j)
REPLACE max_discrp WITH max(max_discrp, round(discrp, 1)),;
max_abs WITH max(max_abs, absolute)
ENDIF

```

```
        i = str(val(i)+1,1)
        j = str(val(j)+1,1)
    ENDDO
ENDSCAN
CLOSE ALL
```

RETURN

```
PROC sum_discrp
* Summarize all discrepancies
```

```
TEXT
Summarizing discrepancies
ENDTEXT
```

```
USE t73
SCAN
    IF max_discrp >= 1 .AND. max_abs >= 3000
        REPLACE signif WITH .T.
    ENDIF
ENDSCAN
CLOSE ALL
```

RETURN

```
PROC discrp_rpt
* Generate quantity discrepancy report
```

```
USE t73 IN 1 ALIAS t7
USE facility IN 2 ORDER fac_id ALIAS fac
USE chemical IN 3 ORDER chem_id ALIAS chem
```

```
SET RELATION TO t7->fac_id INTO fac
SELECT 2
SET RELATION TO t7->chem_id INTO chem
SELECT 1
```

```
SET FIELDS TO t7->fac_id, t7->chem_id, t7->first_year, t7->num_years,;
t7->total_amt1, t7->total_amt2, t7->total_amt3,;
t7->total_amt4, t7->total_amt5, t7->rpt_discrp,;
t7->signif, t7->max_discrp, t7->max_abs,;
fac->fac_name, fac->city,;
chem->use_name
```

```
_plength = 76
REPORT FORM t73 TO FILE t73.txt FOR signif
CLOSE ALL
```

RETURN

APPENDIX E
RESULTS OF COMPARISON OF TRI DATA
AND SINGLE MEDIA DATA



SIC	Chemical	TRI	NPDES	Difference
1479	SODIUM HYDROXIDE	42,000	NR	42,000
2016	CHLORINE	1,826	NR	1,826
2024	AMMONIA	16,500	NR	16,500
2200	SODIUM SULFATE (SOLUTION)	1,500,000	NR	1,500,000
2200	SODIUM HYDROXIDE	711,000	NR	711,000
2211	SODIUM SULFATE (SOLUTION)	4,970,400	NR	4,970,400
2211	SODIUM SULFATE (SOLUTION)	1,155,200	NR	1,155,200
2221	CHLORINE	2,225	NR	2,225
2221	AMMONIA	3,026	NR	3,026
2253	SODIUM SULFATE (SOLUTION)	4,378,000	NR	4,378,000
2253	SODIUM SULFATE (SOLUTION)	8,950,000	NR	8,950,000
2257	XYLENE	5,540	NR	5,540
2257	1,2,4-TRICHLOROBENZENE	1,100	NR	1,100
2257	SODIUM SULFATE (SOLUTION)	2,300,000	NR	2,300,000
2257	1,2,4-TRICHLOROBENZENE	1,000	NR	1,000
2257	SODIUM SULFATE (SOLUTION)	3,500,000	NR	3,500,000
2257	BIPHENYL	2,500	NR	2,500
2257	ZINC	NR	21,385	21,385
2257	SODIUM SULFATE (SOLUTION)	6,060,000	NR	6,060,000
2257	COPPER	NR	208,206	208,206
2257	SODIUM SULFATE (SOLUTION)	20,066,356	NR	20,066,356
2257	AMMONIUM SULFATE (SOLUTION)	30,680	NR	30,680
2258	SODIUM SULFATE (SOLUTION)	137,300	NR	137,300
2261	SODIUM SULFATE (SOLUTION)	1,000,000	NR	1,000,000
2261	SODIUM SULFATE (SOLUTION)	759,334	NR	759,334
2261	CHROMIUM	NR	1,566	1,566
2262	1,2,4-TRICHLOROBENZENE	6,365	NR	6,365
2262	SODIUM SULFATE (SOLUTION)	341,737	NR	341,737
2262	AMMONIUM SULFATE (SOLUTION)	11,453	NR	11,453
2262	SODIUM SULFATE (SOLUTION)	956,000	NR	956,000
2262	CHLORINE	7,000	NR	7,000
2269	SODIUM SULFATE (SOLUTION)	637,910	NR	637,910
2269	SODIUM HYDROXIDE	981,532	NR	981,532
2269	AMMONIUM SULFATE (SOLUTION)	45,862	NR	45,862
2269	SODIUM SULFATE (SOLUTION)	75,000	NR	75,000
2269	SODIUM HYDROXIDE	3,800	NR	3,800
2269	1,2,4-TRICHLOROBENZENE	52,249	NR	52,249

NR = Not Reported

** = Values reported to both TRI and NPDES

All quantities reported in lbs.

SIC	Chemical	TRI	NPDES	Difference
2269	TETRACHLOROETHYLENE	42,192	NR	42,192
2269	SODIUM SULFATE (SOLUTION)	259,700	NR	259,700
2269	SODIUM HYDROXIDE	68,450	NR	68,450
2269	PSEUDOCUMENE	17,575	NR	17,575
2269	BIPHENYL	13,256	NR	13,256
2283	SODIUM SULFATE (SOLUTION)	180,000	NR	180,000
2299	SODIUM SULFATE (SOLUTION)	151,148	NR	151,148
2396	CHLORINE	42,000	NR	42,000
2421	SODIUM HYDROXIDE	1,000	NR	1,000
2493	FORMALDEHYDE	2,248	NR	2,248
2600	SODIUM SULFATE (SOLUTION)	1,608,808	NR	1,608,808
2600	METHANOL	187,697	NR	187,697
2600	CHROMIUM	3,196	NR	3,196
2600	CHLORINE DIOXIDE	4,865	NR	4,865
2600	CHLORINE	1,762	NR	1,762
2600	AMMONIA	13,388	NR	13,388
2600	ACETONE	2,683	NR	2,683
2610	SODIUM SULFATE (SOLUTION)	60,647,550	NR	60,647,550
2610	CHLOROFORM	14,070	NR	14,070
2610	AMMONIA	1,292	NR	1,292
2610	ACETONE	9,010	NR	9,010
2611	AMMONIUM NITRATE (SOLUTION)	1,800	NR	1,800
2611	SODIUM SULFATE (SOLUTION)	32,000,000	NR	32,000,000
2611	ACETONE	6,300	NR	6,300
2611	SODIUM SULFATE (SOLUTION)	16,989,000	NR	16,989,000
2611	AMMONIA	6,050	NR	6,050
2611	ACETONE	3,900	NR	3,900
2641	SODIUM SULFATE (SOLUTION)	24,000,000	NR	24,000,000
2641	CHLOROFORM	28,000	NR	28,000
2641	AMMONIA	490,000	NR	490,000
2641	ACETONE	8,100	NR	8,100
2819	SODIUM HYDROXIDE	23,000	NR	23,000
2819	SODIUM SULFATE (SOLUTION)	102,943	NR	102,943
2819	SODIUM SULFATE (SOLUTION)	855,130	NR	855,130
2819	HYDROCHLORIC ACID	12,500	NR	12,500
2819	SODIUM SULFATE (SOLUTION)	1,900,000	NR	1,900,000
2824	PHOSPHORIC ACID	10,000	NR	10,000
2824	SODIUM SULFATE (SOLUTION)	1,187,245	NR	1,187,245
2824	2-METHOXYETHANOL	2,200	NR	2,200
2824	METHANOL	5,143	NR	5,143
2824	ETHYLENE GLYCOL	19,343	NR	19,343
2824	1,4-DIOXANE	2,290	NR	2,290

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and NPDES

SIC	Chemical	TRI	NPDES	Difference
2824	CHLORINE	1,211	NR	1,211
2824	AMMONIA	8,643	NR	8,643
2824	METHANOL	1,936	NR	1,936
2824	ETHYLENE GLYCOL	60,990	NR	60,990
2824	1,4-DIOXANE	10,606	NR	10,606
2824	AMMONIA	4,180	NR	4,180
2824	ACETALDEHYDE	9,976	NR	9,976
2824	METHANOL	7,100	NR	7,100
2824	ETHYLENE GLYCOL	9,700	NR	9,700
2833	ETHYLENE GLYCOL	20,000	NR	20,000
2834	SODIUM SULFATE (SOLUTION)	369,000	NR	369,000
2834	SODIUM SULFATE (SOLUTION)	487,746	NR	487,746
2834	SODIUM SULFATE (SOLUTION)	124,800	NR	124,800
2861	SODIUM SULFATE (SOLUTION)	7,272,000	NR	7,272,000
2865	SODIUM SULFATE (SOLUTION)	3,800,000	NR	3,800,000
2865	GLYCOL ETHERS	3,700	NR	3,700
2865	ETHYLENE GLYCOL	1,300	NR	1,300
2869	METHANOL	1,200	NR	1,200
2869	FORMALDEHYDE	1,900	NR	1,900
2869	COBALT	1,700	NR	1,700
2869	AMMONIA	7,300	NR	7,300
2873	AMMONIUM NITRATE (SOLUTION)	42,000	NR	42,000
2874	SODIUM SULFATE (SOLUTION)	3,055,000	NR	3,055,000
2874	n-BUTYL ALCOHOL	21,000	NR	21,000
2879	FORMALDEHYDE	8,000	NR	8,000
2899	SODIUM SULFATE (SOLUTION)	15,330	NR	15,330
3079	SODIUM SULFATE (SOLUTION)	1,400,000	NR	1,400,000
3079	AMMONIA	1,800	NR	1,800
3229	PHOSPHORIC ACID	3,746	NR	3,746
3231	SULFURIC ACID	25,000	NR	25,000
3231	SODIUM HYDROXIDE	83,000	NR	83,000
3356	SODIUM SULFATE (SOLUTION)	170,000	NR	170,000
3356	AMMONIA	4,400	NR	4,400
3519	HYDROCHLORIC ACID	10,282	NR	10,282
3552	SULFURIC ACID	45,409	NR	45,409
3552	SODIUM HYDROXIDE	33,163	NR	33,163
3553	GLYCOL ETHERS	12,000	NR	12,000
3553	ETHYLENE GLYCOL	24,000	NR	24,000

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and NPDES

SIC	Chemical	TRI	NPDES	Difference
3692	ZINC COMPOUNDS	3,500	NR	3,500
3861	METHANOL	1,400	NR	1,400

SIC	Chemical	TRI	NPDES	Difference
	CHLORINE	1,500	NR	1,500
1479	SODIUM HYDROXIDE	72,000	NR	72,000
2200	SODIUM HYDROXIDE	527,500	NR	527,500
2221	AMMONIA	3,479	NR	3,479
2252	AMMONIUM SULFATE (SOLUTION)	14,062	NR	14,062
2253	1,2,4-TRICHLOROBENZENE	2,255	NR	2,255
2257	BIPHENYL	5,710	NR	5,710
2257	METHANOL	4,293	NR	4,293
2261	SODIUM HYDROXIDE	103,062	NR	103,062
2262	1,2,4-TRICHLOROBENZENE	5,891	NR	5,891
2262	CHLORINE	1,300	NR	1,300
2269	SODIUM HYDROXIDE	495,286	NR	495,286
2269	AMMONIUM SULFATE (SOLUTION)	91,104	NR	91,104
2272	AMMONIA	9,400	NR	9,400
2299	GLYCOL ETHERS	5,200	NR	5,200
2299	COPPER COMPOUNDS	15,000	NR	15,000
2396	CHLORINE	50,000	NR	50,000
2421	SODIUM HYDROXIDE	3,371	NR	3,371
2493	FORMALDEHYDE	2,000	NR	2,000
2493	AMMONIA	2,900	NR	2,900
2493	ALUMINUM OXIDE	4,600	NR	4,600
2600	CHROMIUM COMPOUNDS	3,000	NR	3,000
2600	CHLORINE	2,100	NR	2,100
2600	CATECHOL	2,500	NR	2,500
2600	AMMONIA	10,000	NR	10,000
2600	ACETONE	2,500	NR	2,500
2610	CHLOROFORM	13,000	NR	13,000
2610	CATECHOL	1,800	NR	1,800
2610	AMMONIA	1,200	NR	1,200
2610	ACETONE	9,500	NR	9,500
2611	CATECHOL	1,600	NR	1,600
2611	ACETONE	6,300	NR	6,300
2611	CHLOROFORM	10,100	NR	10,100
2611	CATECHOL	1,000	NR	1,000
2611	ACETONE	3,600	NR	3,600
2621	AMMONIA	2,500	NR	2,500
2641	CHLOROFORM	28,000	NR	28,000
2641	AMMONIA	8,300	NR	8,300

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and NPDES

SIC	Chemical	TRI	NPDES	Difference
2641	ACETONE	7,500	NR	7,500
2645	NITRIC ACID	1,750	NR	1,750
2819	SODIUM HYDROXIDE	22,000	NR	22,000
2819	HYDROCHLORIC ACID	12,000	NR	12,000
2824	2-METHOXYETHANOL	2,400	NR	2,400
2824	METHANOL	1,400	NR	1,400
2824	MANGANESE COMPOUNDS	2,300	NR	2,300
2824	ETHYLENE GLYCOL	15,300	NR	15,300
2824	COBALT COMPOUNDS	3,100	NR	3,100
2824	CHLORINE	1,200	NR	1,200
2824	AMMONIA	1,800	NR	1,800
2824	ETHYLENE GLYCOL	30,560	NR	30,560
2824	1,4-DIOXANE	7,494	NR	7,494
2824	AMMONIA	7,414	NR	7,414
2824	ACETALDEHYDE	5,220	NR	5,220
2824	METHANOL	9,130	NR	9,130
2824	ETHYLENE GLYCOL	1,900	NR	1,900
2824	ETHYLENE GLYCOL	6,500	NR	6,500
2824	1,4-DIOXANE	17,000	NR	17,000
2833	ETHYLENE GLYCOL	8,200	NR	8,200
2865	GLYCOL ETHERS	7,700	NR	7,700
2865	ETHYLENE GLYCOL	4,400	NR	4,400
2869	TEREPHTHALIC ACID	1,800	NR	1,800
2869	FORMALDEHYDE	1,500	NR	1,500
2869	COBALT	5,470	NR	5,470
2869	AMMONIA	6,800	NR	6,800
2873	AMMONIUM NITRATE (SOLUTION)	50,735	NR	50,735
3079	AMMONIA	1,800	NR	1,800
3231	SULFURIC ACID	27,000	NR	27,000
3231	SODIUM HYDROXIDE	90,000	NR	90,000
3245	ZINC COMPOUNDS	2,105	NR	2,105
3351	COPPER COMPOUNDS	1,023	NR	1,023
3356	AMMONIA	10,160	NR	10,160
3440	ALUMINUM (FUME OR DUST)	6,395	NR	6,395
3553	GLYCOL ETHERS	12,000	NR	12,000
3553	ETHYLENE GLYCOL	30,000	NR	30,000
3573	HYDROCHLORIC ACID	1,700	NR	1,700
3573	AMMONIA	15,000	NR	15,000
3675	NICKEL	NR	2,193	2,193
3861	METHANOL	3,200	NR	3,200

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and NPDES

SIC	Chemical	TRI	NPDES	Difference
2015	CHLORINE	18,750	NR	18,750
2077	AMMONIA	29,908	NR	29,908
2082	AMMONIA	2,100	NR	2,100
2221	AMMONIA	13,000	NR	13,000
2252	CHLORINE	3,317	NR	3,317
2252	AMMONIUM SULFATE (SOLUTION)	23,527	NR	23,527
2253	1,2,4-TRICHLOROBENZENE	1,500	NR	1,500
2253	FORMALDEHYDE	1,200	NR	1,200
2253	1,2,4-TRICHLOROBENZENE	1,100	NR	1,100
2253	FORMALDEHYDE	1,500	NR	1,500
2257	METHANOL	7,662	NR	7,662
2261	AMMONIA	5,623	NR	5,623
2396	CHLORINE	32,000	NR	32,000
2493	FORMALDEHYDE	1,900	NR	1,900
2493	AMMONIA	2,500	NR	2,500
2493	ALUMINUM OXIDE	4,000	NR	4,000
2600	CHROMIUM COMPOUNDS	4,900	NR	4,900
2600	CATECHOL	2,000	NR	2,000
2600	AMMONIA	8,900	NR	8,900
2600	ACETONE	2,300	NR	2,300
2610	CHLOROFORM	10,600	NR	10,600
2610	CATECHOL	1,900	NR	1,900
2610	AMMONIA	1,600	NR	1,600
2610	ACETONE	9,300	NR	9,300
2611	CATECHOL	1,700	NR	1,700
2611	ACETONE	6,800	NR	6,800
2611	CHLOROFORM	16,300	NR	16,300
2611	CATECHOL	1,030	NR	1,030
2611	ACETONE	3,875	NR	3,875
2621	XYLENE	1,335	NR	1,335
2621	AMMONIA	2,088	NR	2,088
2641	PHENOL	15,000	NR	15,000
2641	CHLOROFORM	31,000	NR	31,000
2641	CATECHOL	1,500	NR	1,500
2641	AMMONIA	8,100	NR	8,100
2641	ACETONE	7,600	NR	7,600
2824	2-METHOXYETHANOL	9,760	NR	9,760
2824	METHANOL	80,100	NR	80,100
2824	MANGANESE COMPOUNDS	1,100	NR	1,100
2824	ETHYLENE GLYCOL	66,200	NR	66,200
2824	1,4-DIOXANE	5,240	NR	5,240
2824	COBALT COMPOUNDS	3,500	NR	3,500
2824	CHLORINE	1,790	NR	1,790

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and NPDES

SIC	Chemical	TRI	NPDES	Difference
2824	n-BUTYL ALCOHOL	9,960	NR	9,960
2824	AMMONIA	5,630	NR	5,630
2824	ETHYLENE GLYCOL	30,468	NR	30,468
2824	1,4-DIOXANE	14,958	NR	14,958
2824	AMMONIA	5,843	NR	5,843
2824	ACETALDEHYDE	4,348	NR	4,348
2824	METHANOL	1,800	NR	1,800
2824	ETHYLENE GLYCOL	11,000	NR	11,000
2824	1,4-DIOXANE	32,000	NR	32,000
2824	ACETALDEHYDE	1,500	NR	1,500
2833	ETHYLENE GLYCOL	7,000	NR	7,000
2865	ETHYLENE GLYCOL	4,464	NR	4,464
2865	o-ANISIDINE	4,699	NR	4,699
2865	GLYCOL ETHERS	3,900	NR	3,900
2865	ETHYLENE GLYCOL	3,700	NR	3,700
2865	AMMONIA	85,000	NR	85,000
2869	TEREPHTHALIC ACID	1,400	NR	1,400
2869	METHANOL	1,100	NR	1,100
2869	FORMALDEHYDE	1,900	NR	1,900
2869	COBALT	2,000	NR	2,000
2869	AMMONIA	9,800	NR	9,800
2869	SULFURIC ACID	2,868	NR	2,868
2869	AMMONIA	1,900	NR	1,900
2873	AMMONIUM NITRATE (SOLUTION)	82,125	NR	82,125
2874	AMMONIA	48,000	NR	48,000
2875	AMMONIUM NITRATE (SOLUTION)	3,500	NR	3,500
3229	CHLORINE	1,061	NR	1,061
3351	COPPER COMPOUNDS	1,023	NR	1,023
3356	AMMONIA	10,000	NR	10,000
3553	GLYCOL ETHERS	7,447	NR	7,447
3553	ETHYLENE GLYCOL	21,300	NR	21,300
3861	METHANOL	4,400	NR	4,400
4941	CHLORINE	1,024	NR	1,024

07/22/93 Facilities With Significant Discrepancies Between TRI and NPDES in 1990

SIC	Chemical	TRI	NPDES	Difference
2016	AMMONIA	30,000	NR	30,000
2077	AMMONIA	12,062	NR	12,062
2082	AMMONIA	5,000	NR	5,000
2221	CHROMIUM	NR	1,098	1,098
2221	AMMONIA	8,600	NR	8,600
2252	CHROMIUM	NR	3,042	3,042
2252	AMMONIUM SULFATE (SOLUTION)	27,700	NR	27,700
2253	FORMALDEHYDE	1,188	NR	1,188
2261	AMMONIA	7,332	NR	7,332
2262	AMMONIA	2,618	NR	2,618
2262	GLYCOL ETHERS	7,000	NR	7,000
2262	ZINC	NR	32,926	32,926
2262	COPPER	NR	14,497	14,497
2396	CHLORINE	44,000	NR	44,000
2600	CHROMIUM COMPOUNDS	4,900	NR	4,900
2600	CATECHOL	2,000	NR	2,000
2600	AMMONIA	17,000	NR	17,000
2600	ACETONE	2,400	NR	2,400
2610	CHLOROFORM	8,600	NR	8,600
2610	CATECHOL	1,900	NR	1,900
2610	AMMONIA	1,600	NR	1,600
2610	ACETONE	9,300	NR	9,300
2611	CATECHOL	1,800	NR	1,800
2611	AMMONIA	26,000	NR	26,000
2611	ACETONE	7,100	NR	7,100
2611	CHLOROFORM	5,230	NR	5,230
2611	CATECHOL	1,060	NR	1,060
2611	ACETONE	3,740	NR	3,740
2621	AMMONIA	2,354	NR	2,354
2641	PHENOL	15,000	NR	15,000
2641	METHANOL	100,000	NR	100,000
2641	CHLOROFORM	19,000	NR	19,000
2641	CATECHOL	4,600	NR	4,600
2641	AMMONIA	340,000	NR	340,000
2641	ACETONE	7,300	NR	7,300
2824	2-METHOXYETHANOL	4,755	NR	4,755
2824	METHANOL	124,478	NR	124,478
2824	MANGANESE COMPOUNDS	26,784	NR	26,784
2824	ETHYLENE GLYCOL	26,690	NR	26,690
2824	1,4-DIOXANE	1,880	NR	1,880
2824	COBALT COMPOUNDS	37,500	NR	37,500
2824	CHLORINE	1,460	NR	1,460

NR = Not Reported

** = Values reported to both TRI and NPDES

All quantities reported in lbs.

SIC	Chemical	TRI	NPDES	Difference
2824	n-BUTYL ALCOHOL	8,150	NR	8,150
2824	AMMONIA	16,350	NR	16,350
2824	ETHYLENE GLYCOL	21,533	NR	21,533
2824	1,4-DIOXANE	12,921	NR	12,921
2824	AMMONIA	4,438	NR	4,438
2824	ACETALDEHYDE	3,731	NR	3,731
2824	METHANOL	2,300	NR	2,300
2824	ETHYLENE GLYCOL	14,000	NR	14,000
2824	1,4-DIOXANE	28,000	NR	28,000
2824	ACETALDEHYDE	2,300	NR	2,300
2833	ETHYLENE GLYCOL	2,100	NR	2,100
2833	AMMONIA	14,000	NR	14,000
2865	ETHYLENE GLYCOL	8,211	NR	8,211
2865	GLYCOL ETHERS	4,400	NR	4,400
2865	2,4-DINITROPHENOL	1,600	NR	1,600
2865	AMMONIA	43,000	NR	43,000
2869	FORMALDEHYDE	1,800	NR	1,800
2869	COBALT	2,300	NR	2,300
2869	AMMONIA	12,000	NR	12,000
2873	AMMONIUM NITRATE (SOLUTION)	70,810	NR	70,810
2874	AMMONIA	80,000	NR	80,000
3079	AMMONIA	1,145	NR	1,145
3356	AMMONIA	8,300	NR	8,300
3675	ETHYLENE GLYCOL	4,057	NR	4,057
3861	METHANOL	4,300	NR	4,300
4941	CHLORINE	1,061	NR	1,061

07/22/93 Facilities With Significant Discrepancies Between TRI and Pretreatment in 1987

SIC	Chemical	TRI	Pretreat	Difference
20	SODIUM HYDROXIDE	608,098	NR	608,098
20	SODIUM HYDROXIDE	250,000	NR	250,000
20	PHENOL	NR	765,005	765,005
2011	SODIUM HYDROXIDE	63,000	NR	63,000
2021	SODIUM HYDROXIDE	41,000	NR	41,000
2021	PHOSPHORIC ACID	40,000	NR	40,000
2023	SODIUM HYDROXIDE	10,000	NR	10,000
2024	SODIUM HYDROXIDE	37,191	NR	37,191
2024	SODIUM HYDROXIDE	149,892	NR	149,892
2024	PHOSPHORIC ACID	26,607	NR	26,607
2026	SODIUM HYDROXIDE	14,270	NR	14,270
2026	PHOSPHORIC ACID	11,657	NR	11,657
2026	SODIUM HYDROXIDE	40,607	NR	40,607
2026	PHOSPHORIC ACID	25,673	NR	25,673
2026	SODIUM HYDROXIDE	20,000	NR	20,000
2046	SODIUM SULFATE (SOLUTION)	7,000,000	NR	7,000,000
2046	SODIUM HYDROXIDE	280,000	NR	280,000
2086	SODIUM HYDROXIDE	73,841	NR	73,841
2086	BARIUM	NR	62,049	62,049
2111	TOLUENE	NR	118,798	118,798
2111	SODIUM HYDROXIDE	15,450	NR	15,450
22	SODIUM HYDROXIDE	470,000	NR	470,000
22	SULFURIC ACID	600,000	NR	600,000
22	SODIUM SULFATE (SOLUTION)	2,154,800	NR	2,154,800
22	SODIUM HYDROXIDE	950,000	NR	950,000
2200	SODIUM SULFATE (SOLUTION)	1,500,000	NR	1,500,000
2200	SODIUM HYDROXIDE	517,000	NR	517,000
2200	SODIUM HYDROXIDE	711,000	NR	711,000
2211	SODIUM SULFATE (SOLUTION)	1,145,300	NR	1,145,300
2211	GLYCOL ETHERS	45,800	NR	45,800
2211	ARSENIC	NR	47,183	47,183
2211	TOLUENE	NR	33,947	33,947
2211	ARSENIC	NR	46,757	46,757
2221	SULFURIC ACID	280,000	NR	280,000
2221	SODIUM HYDROXIDE	490,000	NR	490,000
2221	AMMONIA	28,000	NR	28,000
2221	SODIUM SULFATE (SOLUTION)	45,000	NR	45,000
2221	SODIUM HYDROXIDE	18,000	NR	18,000

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
2221	TOLUENE	NR	39,483	39,483
2221	SILVER	NR	78,966	78,966
2221	SELENIUM	NR	43,870	43,870
2221	MERCURY	NR	114,062	114,062
2221	LEAD	NR	26,322	26,322
2221	COPPER	NR	144,771	144,771
2221	SODIUM SULFATE (SOLUTION)	62,500	NR	62,500
2221	SODIUM HYDROXIDE	119,500	NR	119,500
2221	TOLUENE	NR	28,060	28,060
2221	SODIUM SULFATE (SOLUTION)	30,800	NR	30,800
2221	SODIUM HYDROXIDE	52,994	NR	52,994
2221	PHENOL	NR	1,220,000,000	1,220,000,000
2221	TOLUENE	NR	115,138	115,138
2221	SILVER	NR	138,165	138,165
2221	SELENIUM	NR	13,817	13,817
2221	MERCURY	NR	101,321	101,321
2221	LEAD	NR	13,817	13,817
2221	COPPER	NR	18,422	18,422
2221	BARIUM	NR	245,625,132	245,625,132
2221	SILVER	NR	10,680	10,680
2221	PHENOL	NR	1,525,701,195	1,525,701,195
2221	ANTIMONY	NR	50,857	50,857
2221	SODIUM HYDROXIDE	143,000	NR	143,000
2221	ETHYLENE GLYCOL	14,785	NR	14,785
2221	TETRACHLOROETHYLENE	32,000	NR	32,000
2221	SODIUM SULFATE (SOLUTION)	420,000	NR	420,000
2231	SODIUM SULFATE (SOLUTION)	182,210	NR	182,210
2231	SILVER	NR	37,988	37,988
2251	SODIUM SULFATE (SOLUTION)	12,000	NR	12,000
2251	PHENOL	NR	34,823	34,823
2251	SODIUM SULFATE (SOLUTION)	105,000	NR	105,000
2251	AMMONIUM SULFATE (SOLUTION)	60,000	NR	60,000
2252	SODIUM SULFATE (SOLUTION)	49,060	NR	49,060
2252	AMMONIUM SULFATE (SOLUTION)	40,000	NR	40,000
2252	AMMONIUM SULFATE (SOLUTION)	10,800	NR	10,800
2252	CHLORINE	171,787	NR	171,787
2252	CHLORINE	32,928	NR	32,928
2252	AMMONIUM SULFATE (SOLUTION)	11,850	NR	11,850
2252	SODIUM SULFATE (SOLUTION)	20,000	NR	20,000
2252	MERCURY	NR	16,242	16,242
2252	COPPER	NR	10,258	10,258

All quantities reported in lbs.

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SIC	Chemical	TRI	Pretreat	Difference
2252	ARSENIC	NR	76,937	76,937
2252	AMMONIUM SULFATE (SOLUTION)	10,800	NR	10,800
2252	SODIUM SULFATE (SOLUTION)	854,200	NR	854,200
2252	SODIUM HYDROXIDE	23,399	NR	23,399
2252	BIPHENYL	38,140	NR	38,140
2252	SODIUM SULFATE (SOLUTION)	35,900	NR	35,900
2252	SODIUM HYDROXIDE	65,762	NR	65,762
2252	AMMONIUM SULFATE (SOLUTION)	19,500	NR	19,500
2252	CHLORINE	39,105	NR	39,105
2252	AMMONIUM SULFATE (SOLUTION)	21,075	NR	21,075
2252	TOLUENE	NR	12,353	12,353
2252	TOLUENE	NR	32,788	32,788
2252	SILVER	NR	78,690	78,690
2252	MERCURY	NR	15,738	15,738
2252	LEAD	NR	22,296	22,296
2252	COPPER	NR	10,492	10,492
2252	BARIUM	NR	38,033,500	38,033,500
2252	ARSENIC	NR	131,150	131,150
2252	TOLUENE	NR	94,008	94,008
2252	SODIUM SULFATE (SOLUTION)	29,656	NR	29,656
2252	CHLORINE	27,031	NR	27,031
2252	CHLORINE	36,185	NR	36,185
2252	SODIUM SULFATE (SOLUTION)	60,000	NR	60,000
2253	PHENOL	NR	62,296	62,296
2253	SODIUM HYDROXIDE	111,345	NR	111,345
2253	CHLORINE	15,759	NR	15,759
2253	XYLENE	97,744	NR	97,744
2253	SODIUM HYDROXIDE	11,700	NR	11,700
2253	ETHYLENE OXIDE	21,160	NR	21,160
2253	CHLORINE	73,000	NR	73,000
2253	BIPHENYL	15,883	NR	15,883
2253	ALUMINUM (FUME OR DUST)	NR	352,331	352,331
2257	SODIUM HYDROXIDE	50,700	NR	50,700
2257	AMMONIUM SULFATE (SOLUTION)	19,200	NR	19,200
2257	SODIUM SULFATE (SOLUTION)	1,508,433	NR	1,508,433
2257	SODIUM SULFATE (SOLUTION)	921,000	NR	921,000
2257	SODIUM HYDROXIDE	84,905	NR	84,905
2257	SILVER	NR	73,353	73,353
2257	COPPER	NR	44,041	44,041
2257	AMMONIUM SULFATE (SOLUTION)	38,385	NR	38,385
2257	SODIUM SULFATE (SOLUTION)	332,640	NR	332,640
2257	SILVER	NR	30,500	30,500

All quantities reported in lbs.

NR = Not Reported

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SIC	Chemical	TRI	Pretreat	Difference
2257	LEAD	NR	64,050	64,050
2257	COPPER	NR	10,169	10,169
2258	XYLENE	38,853	NR	38,853
2258	TETRACHLOROETHYLENE	77,242	NR	77,242
2258	BIPHENYL	29,412	NR	29,412
2258	SODIUM SULFATE (SOLUTION)	25,100	NR	25,100
2258	AMMONIUM SULFATE (SOLUTION)	19,400	NR	19,400
2258	TOLUENE	NR	57,645	57,645
2258	MERCURY	NR	17,080	17,080
2258	TOLUENE	12,384	NR	12,384
2258	SODIUM SULFATE (SOLUTION)	234,000	NR	234,000
2258	SODIUM HYDROXIDE	40,872	NR	40,872
2258	SILVER	NR	977,353	977,353
2258	AMMONIUM SULFATE (SOLUTION)	67,620	NR	67,620
2258	SODIUM HYDROXIDE	29,750	NR	29,750
2258	AMMONIUM SULFATE (SOLUTION)	290,000	NR	290,000
226	SULFURIC ACID	271,000	NR	271,000
2260	SILVER	NR	20,506	20,506
2261	SODIUM SULFATE (SOLUTION)	6,050,200	NR	6,050,200
2261	GLYCOL ETHERS	28,600	NR	28,600
2261	ETHYLENE GLYCOL	13,300	NR	13,300
2261	SILVER	NR	58,721	58,721
2261	SULFURIC ACID	50,000	NR	50,000
2261	SODIUM HYDROXIDE	167,000	NR	167,000
2262	SODIUM HYDROXIDE	16,200	NR	16,200
2262	1,2,4-TRICHLOROBENZENE	23,995	NR	23,995
2262	SODIUM SULFATE (SOLUTION)	68,911	NR	68,911
2262	AMMONIUM SULFATE (SOLUTION)	26,265	NR	26,265
2262	AMMONIA	29,012	NR	29,012
2262	PHENOL	NR	18,284	18,284
2262	MERCURY	NR	12,189	12,189
2262	SILVER	NR	12,525	12,525
2262	SODIUM HYDROXIDE	75,687	NR	75,687
2262	SODIUM HYDROXIDE	400,000	NR	400,000
2262	SODIUM SULFATE (SOLUTION)	680,000	NR	680,000
2262	AMMONIUM SULFATE (SOLUTION)	75,000	NR	75,000
2262	SODIUM SULFATE (SOLUTION)	84,270	NR	84,270
2262	SODIUM HYDROXIDE	148,803	NR	148,803
2269	TETRACHLOROETHYLENE	21,528	NR	21,528
2269	SODIUM SULFATE (SOLUTION)	32,182	NR	32,182
2269	SODIUM HYDROXIDE	13,777	NR	13,777

All quantities reported in lbs.

NR = Not Reported

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SIC	Chemical	TRI	Pretreat	Difference
2269	TOLUENE	NR	70,786	70,786
2269	SILVER	NR	556,175	556,175
2269	SELENIUM	NR	80,898	80,898
2269	MERCURY	NR	141,572	141,572
2269	LEAD	NR	30,337	30,337
2269	COPPER	NR	30,337	30,337
2269	COBALT	NR	10,112	10,112
2269	CHROMIUM	NR	505,613,750	505,613,750
2269	CADMIUM	NR	10,112	10,112
2269	BARIUM	NR	222,470,050	222,470,050
2269	ALUMINUM (FUME OR DUST)	NR	10,112	10,112
2269	TETRACHLOROETHYLENE	50,000	NR	50,000
2269	SODIUM SULFATE (SOLUTION)	940,000	NR	940,000
2269	TOLUENE	NR	50,349	50,349
2269	SODIUM HYDROXIDE	360,000	NR	360,000
2269	SELENIUM	NR	20,979	20,979
2269	MERCURY	NR	12,587	12,587
2269	COPPER	NR	12,587	12,587
2269	1,1,1-TRICHLOROETHANE	45,600	NR	45,600
2269	SODIUM HYDROXIDE	38,475	NR	38,475
2269	MELAMINE	42,000	NR	42,000
2269	SULFURIC ACID	15,000	NR	15,000
2269	SODIUM SULFATE (SOLUTION)	880,000	NR	880,000
2269	SODIUM HYDROXIDE	432,000	NR	432,000
2269	SODIUM SULFATE (SOLUTION)	75,000	NR	75,000
2269	SODIUM SULFATE (SOLUTION)	1,575,000	NR	1,575,000
2269	SODIUM HYDROXIDE	63,500	NR	63,500
2269	PHENOL	NR	351,717	351,717
2269	COBALT	NR	116,053	116,053
2269	PHENOL	NR	14,234	14,234
2269	SODIUM SULFATE (SOLUTION)	21,000	NR	21,000
2269	SODIUM HYDROXIDE	31,000	NR	31,000
2269	SILVER	NR	54,900	54,900
2269	COPPER	NR	14,647	14,647
2269	AMMONIUM SULFATE (SOLUTION)	28,000	NR	28,000
2269	TOLUENE	NR	16,013	16,013
2269	SILVER	NR	234,850	234,850
2269	SELENIUM	NR	26,688	26,688
2269	MERCURY	NR	64,050	64,050
2269	LEAD	NR	21,350	21,350
2269	CADMIUM	NR	10,675	10,675
2269	PHENOL	NR	17,306,707	17,306,707
2269	SODIUM SULFATE (SOLUTION)	264,900	NR	264,900
2269	SODIUM HYDROXIDE	10,235	NR	10,235
2272	XYLENE	18,304	NR	18,304

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and Pretreatment

07/22/93 Facilities With Significant Discrepancies Between TRI and Pretreatment in 1987

SIC	Chemical	TRI	Pretreat	Difference
2272	1,2,4-TRICHLOROBENZENE	29,767	NR	29,767
2272	SODIUM SULFATE (SOLUTION)	196,605	NR	196,605
2272	SODIUM HYDROXIDE	105,810	NR	105,810
2272	ETHYLENE GLYCOL	11,673	NR	11,673
2281	TOLUENE	NR	11,895	11,895
2281	PHENOL	NR	2,745,000,000	2,745,000,000
2281	MERCURY	NR	14,640	14,640
2281	SODIUM SULFATE (SOLUTION)	669,300	NR	669,300
2281	SODIUM HYDROXIDE	18,690	NR	18,690
2281	SODIUM SULFATE (SOLUTION)	170,000	NR	170,000
2281	TOLUENE	NR	13,366	13,366
2281	SELENIUM	NR	13,366	13,366
2281	MERCURY	NR	35,643	35,643
2281	LEAD	NR	28,960	28,960
2281	COPPER	NR	13,366	13,366
2281	SODIUM HYDROXIDE	70,000	NR	70,000
2282	SULFURIC ACID	12,100	NR	12,100
2282	SODIUM HYDROXIDE	34,000	NR	34,000
2282	ETHYLENE GLYCOL	19,200	NR	19,200
2283	SODIUM SULFATE (SOLUTION)	180,000	NR	180,000
2283	SODIUM SULFATE (SOLUTION)	11,400	NR	11,400
2284	METHANOL	209,400	NR	209,400
2284	FORMALDEHYDE	62,800	NR	62,800
2293	SULFURIC ACID	62,479	NR	62,479
2293	SODIUM HYDROXIDE	1,858,724	NR	1,858,724
2293	CHLORINE	330,000	NR	330,000
2295	SULFURIC ACID	59,800	NR	59,800
2295	SODIUM HYDROXIDE	55,500	NR	55,500
2296	SULFURIC ACID	13,256	NR	13,256
2297	TOLUENE	NR	58,403	58,403
2297	LEAD	NR	14,601	14,601
2297	COPPER	NR	58,403	58,403
2298	SODIUM SULFATE (SOLUTION)	542,975	NR	542,975
2299	SODIUM SULFATE (SOLUTION)	1,779,000	NR	1,779,000
2299	SODIUM HYDROXIDE	232,000	NR	232,000
2300	SODIUM HYDROXIDE	201,719	NR	201,719
2300	SODIUM HYDROXIDE	189,000	NR	189,000
2321	SODIUM SULFATE (SOLUTION)	620,000	NR	620,000
2321	SODIUM HYDROXIDE	55,000	NR	55,000
2321	PHENOL	NR	85,044	85,044

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SIC	Chemical	TRI	Pretreat	Difference
2322	TOLUENE	NR	120,032	120,032
2322	SILVER	NR	578,336	578,336
2322	SELENIUM	NR	87,296	87,296
2322	MERCURY	NR	120,032	120,032
2322	LEAD	NR	32,736	32,736
2322	COPPER	NR	65,472	65,472
2322	COBALT	NR	10,912	10,912
2322	CADMIUM	NR	10,912	10,912
2322	ALUMINUM (FUME OR DUST)	NR	10,912	10,912
2322	SODIUM SULFATE (SOLUTION)	176,000	NR	176,000
2322	SODIUM SULFATE (SOLUTION)	235,000	NR	235,000
2322	SODIUM SULFATE (SOLUTION)	760,500	NR	760,500
2322	BIPHENYL	23,200	NR	23,200
2341	SODIUM SULFATE (SOLUTION)	97,750	NR	97,750
2341	SODIUM HYDROXIDE	28,809	NR	28,809
2439	CHLORINE	NR	12,161	12,161
2511	n-BUTYL ALCOHOL	18,203	NR	18,203
2511	MERCURY	NR	16,475	16,475
2641	TOLUENE	20,000	NR	20,000
2653	PHENOL	NR	12,894	12,894
2741	ISOPROPYL ALCOHOL	55,484	NR	55,484
2754	TOLUENE	13,000	81	12,919 **
2754	METHANOL	62,000	NR	62,000
2793	NITRIC ACID	43,736	NR	43,736
2819	AMMONIA	17,000	NR	17,000
2819	SODIUM HYDROXIDE	23,000	NR	23,000
2821	SODIUM SULFATE (SOLUTION)	206,000	NR	206,000
2821	METHANOL	10,800	NR	10,800
2821	ETHYLENE GLYCOL	29,200	NR	29,200
2821	ETHYLENE GLYCOL	23,900	NR	23,900
2833	SODIUM SULFATE (SOLUTION)	280,000	NR	280,000
2833	METHYL TERT-BUTYL ETHER	54,000	NR	54,000
2833	ETHYLENE GLYCOL	13,000	NR	13,000
2833	ACETONE	21,000	NR	21,000
2834	ETHYLENE OXIDE	81,700	NR	81,700
2834	MERCURY	NR	21,960	21,960
2834	METHANOL	67,500	NR	67,500
2834	DIMETHYL PHTHALATE	13,807	NR	13,807
2843	SODIUM HYDROXIDE	12,554	NR	12,554

All quantities reported in lbs.

NR = Not Reported

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SIC	Chemical	TRI	Pretreat	Difference
2843	SODIUM SULFATE (SOLUTION)	419,000	NR	419,000
2843	SULFURIC ACID	31,000	NR	31,000
2843	SODIUM HYDROXIDE	12,900	NR	12,900
2865	AMMONIA	17,000	NR	17,000
2869	SODIUM SULFATE (SOLUTION)	2,055,470	NR	2,055,470
2869	SODIUM SULFATE (SOLUTION)	137,500	NR	137,500
2899	SODIUM SULFATE (SOLUTION)	15,330	NR	15,330
3052	TOLUENE	11,600	90,774	79,174 **
3052	SODIUM SULFATE (SOLUTION)	230,000	NR	230,000
3069	MERCURY	NR	20,714	20,714
3231	SODIUM HYDROXIDE	10,590	NR	10,590
329	ASBESTOS	140,000	NR	140,000
3321	TOLUENE	NR	74,291	74,291
3321	SELENIUM	NR	134,633	134,633
3339	CYANIDE COMPOUNDS	NR	497,394	497,394
3351	METHANOL	10,000	NR	10,000
3353	PHENOL	NR	47,742	47,742
3354	PHENOL	NR	319,170,240	319,170,240
3354	COPPER	NR	13,654	13,654
3354	ARSENIC	NR	234,725	234,725
3411	SILVER	NR	47,565	47,565
3412	SODIUM HYDROXIDE	58,500	NR	58,500
3423	SULFURIC ACID	163,000	NR	163,000
3423	SODIUM HYDROXIDE	242,000	NR	242,000
3423	HYDROCHLORIC ACID	225,000	NR	225,000
3425	TOLUENE	NR	10,120	10,120
3425	MERCURY	NR	10,795	10,795
3425	COPPER	NR	62,072	62,072
3429	SODIUM SULFATE (SOLUTION)	110,000	NR	110,000
3429	SODIUM SULFATE (SOLUTION)	205,900	NR	205,900
3444	ARSENIC	NR	31,959	31,959
3448	TOLUENE	0	13,517	13,517 **
3448	SELENIUM	NR	26,282	26,282
3448	LEAD	NR	16,520	16,520
3471	SELENIUM	NR	132,844	132,844
3471	COBALT	NR	1,195,592	1,195,592

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
3471	SODIUM SULFATE (SOLUTION)	57,000	NR	57,000
3471	SULFURIC ACID	65,000	NR	65,000
3471	SODIUM HYDROXIDE	47,000	NR	47,000
3471	NITRIC ACID	12,000	NR	12,000
3479	HYDROCHLORIC ACID	27,000	NR	27,000
3479	SODIUM HYDROXIDE	112,000	NR	112,000
3499	SULFURIC ACID	33,680	NR	33,680
3519	TOLUENE	NR	58,772	58,772
3519	MERCURY	NR	16,456	16,456
3519	COPPER	NR	423,157	423,157
3519	COBALT	NR	23,509	23,509
3519	ARSENIC	NR	2,565,977	2,565,977
3519	ALUMINUM (FUME OR DUST)	0	2,262,715	2,262,715 **
3536	SILVER	NR	89,213	89,213
3599	ALUMINUM OXIDE	12,000	NR	12,000
3613	TOLUENE	NR	52,342	52,342
3613	MERCURY	NR	11,632	11,632
3613	COPPER	NR	13,958	13,958
3621	TOLUENE	NR	45,857	45,857
3621	MERCURY	NR	45,857	45,857
3621	TOLUENE	NR	42,700	42,700
3621	SILVER	NR	109,800	109,800
3621	SELENIUM	NR	30,500	30,500
3621	MERCURY	NR	36,600	36,600
3622	GLYCOL ETHERS	21,000	NR	21,000
3622	SULFURIC ACID	59,517	NR	59,517
3622	SODIUM HYDROXIDE	26,054	NR	26,054
3622	HYDROCHLORIC ACID	25,374	NR	25,374
3672	MERCURY	NR	10,614	10,614
3674	SULFURIC ACID	76,083	NR	76,083
3674	SODIUM HYDROXIDE	33,600	NR	33,600
3674	PHOSPHORIC ACID	11,228	NR	11,228
3674	SULFURIC ACID	11,718	NR	11,718
3674	SODIUM HYDROXIDE	74,355	NR	74,355
3674	HYDROCHLORIC ACID	85,010	NR	85,010
3675	ETHYLENE GLYCOL	33,500	NR	33,500
3676	LEAD	NR	40,275	40,275
3678	SODIUM SULFATE (SOLUTION)	65,000	NR	65,000
3691	SODIUM SULFATE (SOLUTION)	163,000	NR	163,000

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
3695	TOLUENE	NR	22,326	22,326
3700	SODIUM SULFATE (SOLUTION)	183,251	NR	183,251
3714	TOLUENE	NR	383,690	383,690
3714	SILVER	NR	1,899,266	1,899,266
3714	SELENIUM	NR	115,107	115,107
3714	MERCURY	NR	57,554	57,554
3714	LEAD	NR	172,661	172,661
3714	COPPER	NR	57,554	57,554
3714	COBALT	NR	19,185	19,185
3714	CADMIUM	NR	19,185	19,185
3714	ALUMINUM (FUME OR DUST)	NR	19,185	19,185
3714	SODIUM HYDROXIDE	152,530	NR	152,530
3714	SULFURIC ACID	94,500	NR	94,500
3714	SODIUM HYDROXIDE	150,500	NR	150,500
3714	SULFURIC ACID	88,200	NR	88,200
3714	SODIUM HYDROXIDE	80,200	NR	80,200
3964	XYLENE	30,000	NR	30,000
3999	SODIUM HYDROXIDE	22,000	NR	22,000
8098	SODIUM SULFATE (SOLUTION)	500,000	NR	500,000
8098	SODIUM HYDROXIDE	100,000	NR	100,000

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
20	SULFURIC ACID	80,700	NR	80,700
20	SODIUM HYDROXIDE	448,851	NR	448,851
20	SODIUM HYDROXIDE	93,000	NR	93,000
2016	PHENOL	NR	16,144	16,144
2024	SODIUM HYDROXIDE	89,254	NR	89,254
2024	AMMONIA	82,560	NR	82,560
2024	SODIUM HYDROXIDE	148,365	NR	148,365
2024	PHOSPHORIC ACID	48,364	NR	48,364
2026	SODIUM HYDROXIDE	18,846	NR	18,846
2026	PHOSPHORIC ACID	18,674	NR	18,674
2026	PHOSPHORIC ACID	11,000	NR	11,000
2026	TOLUENE	NR	64,604	64,604
2032	PHENOL	NR	606,762	606,762
2046	SODIUM HYDROXIDE	1,200,000	NR	1,200,000
2077	AMMONIA	90,000	NR	90,000
2077	AMMONIA	67,800	NR	67,800
2086	SODIUM HYDROXIDE	45,674	NR	45,674
2086	SODIUM HYDROXIDE	37,363	NR	37,363
2111	TOLUENE	0	40,375	40,375 **
2111	SODIUM HYDROXIDE	13,000	NR	13,000
22	SODIUM HYDROXIDE	920,000	NR	920,000
22	SULFURIC ACID	675,342	NR	675,342
22	SODIUM HYDROXIDE	757,470	NR	757,470
2200	SODIUM HYDROXIDE	527,500	NR	527,500
2200	SODIUM HYDROXIDE	1,105,558	NR	1,105,558
2211	SODIUM HYDROXIDE	11,250	NR	11,250
2221	SULFURIC ACID	350,000	NR	350,000
2221	SODIUM HYDROXIDE	711,000	NR	711,000
2221	AMMONIA	31,500	NR	31,500
2221	SODIUM HYDROXIDE	101,150	NR	101,150
2221	SODIUM HYDROXIDE	27,500	NR	27,500
2221	SODIUM HYDROXIDE	125,000	NR	125,000
2221	SODIUM HYDROXIDE	32,650	NR	32,650
2221	PHENOL	NR	42,122,025	42,122,025

NR = Not Reported ** = Values reported to both TRI and Pretreatment

All quantities reported in lbs.

SIC	Chemical	TRI	Pretreat	Difference
2221	PHENOL	NR	37,028	37,028
2221	SODIUM HYDROXIDE	115,065	NR	115,065
2221	TETRACHLOROETHYLENE	102,600	NR	102,600
2231	SILVER	NR	11,712	11,712
2231	ARSENIC	NR	223,769	223,769
2251	SODIUM HYDROXIDE	10,260	NR	10,260
2251	AMMONIUM SULFATE (SOLUTION)	10,800	NR	10,800
2251	CHLORINE	231,000	NR	231,000
2251	TOLUENE	NR	51,806	51,806
2251	MERCURY	NR	10,361	10,361
2251	AMMONIUM SULFATE (SOLUTION)	60,000	NR	60,000
2252	SODIUM HYDROXIDE	12,000	NR	12,000
2252	CHLORINE	56,560	NR	56,560
2252	AMMONIUM SULFATE (SOLUTION)	29,500	NR	29,500
2252	CHLORINE	252,670	NR	252,670
2252	CHLORINE	46,300	NR	46,300
2252	MERCURY	NR	10,190	10,190
2252	ARSENIC	NR	10,190	10,190
2252	BIPHENYL	26,995	NR	26,995
2252	SODIUM HYDROXIDE	12,587	NR	12,587
2252	AMMONIUM SULFATE (SOLUTION)	17,000	NR	17,000
2252	CHLORINE	33,000	NR	33,000
2252	TOLUENE	NR	31,034	31,034
2252	SILVER	NR	10,345	10,345
2252	SELENIUM	NR	12,414	12,414
2252	PHENOL	NR	3,055,841	3,055,841
2252	MERCURY	NR	22,758	22,758
2252	PHENOL	NR	10,201	10,201
2252	AMMONIUM SULFATE (SOLUTION)	14,062	NR	14,062
2252	CHLORINE	25,063	NR	25,063
2253	PHENOL	NR	59,870	59,870
2253	SULFURIC ACID	120,000	NR	120,000
2253	SODIUM HYDROXIDE	240,000	NR	240,000
2253	XYLENE	97,744	NR	97,744
2253	SODIUM HYDROXIDE	11,700	NR	11,700
2253	CHLORINE	73,000	NR	73,000
2253	BIPHENYL	15,883	NR	15,883
2257	SODIUM HYDROXIDE	58,825	NR	58,825

** = Values reported to both TRI and Pretreatment

NR = Not Reported

All quantities reported in lbs.

SIC	Chemical	TRI	Pretreat	Difference
2257	SILVER	NR	13,491	13,491
2257	AMMONIUM SULFATE (SOLUTION)	10,000	NR	10,000
2257	SODIUM HYDROXIDE	47,500	NR	47,500
2257	SODIUM HYDROXIDE	144,800	NR	144,800
2257	PSEUDOCUMENE	33,220	NR	33,220
2257	FORMALDEHYDE	144,611	NR	144,611
2257	BIPHENYL	90,775	NR	90,775
2257	AMMONIA	71,545	NR	71,545
2258	XYLENE	27,265	NR	27,265
2258	TETRACHLOROETHYLENE	61,864	NR	61,864
2258	SODIUM HYDROXIDE	49,006	NR	49,006
2258	ETHYLENE GLYCOL	42,071	NR	42,071
2258	BIPHENYL	18,273	NR	18,273
2258	AMMONIUM SULFATE (SOLUTION)	24,048	NR	24,048
2258	AMMONIUM SULFATE (SOLUTION)	19,950	NR	19,950
2258	TOLUENE	18,006	NR	18,006
2258	SODIUM HYDROXIDE	29,885	NR	29,885
2258	SILVER	NR	89,222	89,222
2258	AMMONIUM SULFATE (SOLUTION)	63,285	NR	63,285
2258	SODIUM HYDROXIDE	26,600	NR	26,600
2258	AMMONIUM SULFATE (SOLUTION)	152,000	NR	152,000
226	SULFURIC ACID	271,000	NR	271,000
2260	SILVER	NR	25,639	25,639
2261	SODIUM HYDROXIDE	213,338	NR	213,338
2261	SODIUM HYDROXIDE	59,700	NR	59,700
2262	SODIUM HYDROXIDE	13,660	NR	13,660
2262	XYLENE	88,496	NR	88,496
2262	1,2,4-TRICHLOROBENZENE	10,201	NR	10,201
2262	AMMONIUM SULFATE (SOLUTION)	22,994	NR	22,994
2262	AMMONIA	28,295	NR	28,295
2262	PHENOL	NR	14,903	14,903
2262	MERCURY	NR	13,334	13,334
2262	SODIUM HYDROXIDE	91,397	NR	91,397
2262	SODIUM HYDROXIDE	280,000	NR	280,000
2262	AMMONIUM SULFATE (SOLUTION)	57,600	NR	57,600
2269	TETRACHLOROETHYLENE	13,856	NR	13,856
2269	SODIUM HYDROXIDE	23,663	NR	23,663
2269	TETRACHLOROETHYLENE	58,000	NR	58,000
2269	BIPHENYL	12,000	NR	12,000

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

07/22/93 Facilities With Significant Discrepancies Between TRI and Pretreatment in 1988

SIC	Chemical	TRI	Pretreat	Difference
2269	SODIUM HYDROXIDE	34,500	NR	34,500
2269	AMMONIUM SULFATE (SOLUTION)	11,000	NR	11,000
2269	1,2,4-TRICHLOROBENZENE	14,848	NR	14,848
2269	TETRACHLOROETHYLENE	10,150	NR	10,150
2269	SODIUM HYDROXIDE	335,000	NR	335,000
2269	PHENOL	NR	247,297	247,297
2269	SODIUM HYDROXIDE	36,500	NR	36,500
2269	SODIUM HYDROXIDE	290,000	NR	290,000
2269	PHENOL	NR	14,870	14,870
2269	GLYCOL ETHERS	15,200	NR	15,200
2269	PHENOL	NR	14,889	14,889
2269	SODIUM HYDROXIDE	11,650	NR	11,650
2269	SODIUM HYDROXIDE	26,600	NR	26,600
2269	1,2,4-TRICHLOROBENZENE	59,704	NR	59,704
2269	TETRACHLOROETHYLENE	42,074	NR	42,074
2269	SODIUM HYDROXIDE	82,200	NR	82,200
2269	PSEUDOCUMENE	23,496	NR	23,496
2269	BIPHENYL	13,256	NR	13,256
2272	1,2,4-TRICHLOROBENZENE	12,952	NR	12,952
2272	SODIUM HYDROXIDE	114,908	NR	114,908
2272	PHOSPHORIC ACID	15,232	NR	15,232
2272	ETHYLENE GLYCOL	16,747	NR	16,747
2281	SODIUM HYDROXIDE	18,957	NR	18,957
2281	PHENOL	NR	6,717,625	6,717,625
2281	SODIUM HYDROXIDE	150,000	NR	150,000
2282	SULFURIC ACID	20,564	NR	20,564
2282	SODIUM HYDROXIDE	157,971	NR	157,971
2282	1,2,4-TRICHLOROBENZENE	59,922	NR	59,922
2284	METHANOL	226,000	NR	226,000
2284	FORMALDEHYDE	117,900	NR	117,900
2293	SULFURIC ACID	79,842	NR	79,842
2293	SODIUM HYDROXIDE	1,857,734	NR	1,857,734
2293	CHLORINE	332,000	NR	332,000
2296	SULFURIC ACID	13,100	NR	13,100
2299	SODIUM HYDROXIDE	348,070	NR	348,070
2300	SODIUM HYDROXIDE	305,680	NR	305,680
2321	SODIUM HYDROXIDE	82,250	NR	82,250
2321	PHENOL	NR	78,927	78,927

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

07/22/93 Facilities With Significant Discrepancies Between TRI and Pretreatment in 1988

SIC	Chemical	TRI	Pretreat	Difference
2322	SODIUM HYDROXIDE	183,144	NR	183,144
2322	SODIUM HYDROXIDE	170,023	NR	170,023
2322	BIPHENYL	28,667	NR	28,667
2322	SODIUM HYDROXIDE	86,688	NR	86,688
2341	SODIUM HYDROXIDE	26,606	NR	26,606
2439	CHLORINE	NR	26,873	26,873
2641	TOLUENE	14,200	NR	14,200
2653	PHENOL	NR	11,011	11,011
2754	TOLUENE	13,886	56	13,830 **
2754	METHANOL	14,674	NR	14,674
2793	NITRIC ACID	27,300	NR	27,300
2819	AMMONIA	31,455	NR	31,455
2819	SODIUM HYDROXIDE	22,000	NR	22,000
2821	METHANOL	50,128	NR	50,128
2821	FORMALDEHYDE	48,465	NR	48,465
2821	ETHYLENE GLYCOL	152,388	NR	152,388
2824	ACETONE	22,609	NR	22,609
2833	TOLUENE	68,000	309	67,691 **
2833	METHYLENE CHLORIDE	12,000	NR	12,000
2833	CHLOROFORM	65,000	NR	65,000
2833	ACETONE	170,000	NR	170,000
2834	ETHYLENE OXIDE	25,000	NR	25,000
2834	ETHYLENE GLYCOL	100,000	NR	100,000
2834	SODIUM HYDROXIDE	22,602	NR	22,602
2834	METHANOL	19,772	NR	19,772
2834	DIMETHYL PHTHALATE	10,229	NR	10,229
2834	n-BUTYL ALCOHOL	12,608	NR	12,608
2834	GLYCOL ETHERS	27,000	NR	27,000
2843	PHENOL	NR	61,268	61,268
2844	SULFURIC ACID	25,517	NR	25,517
2844	SODIUM HYDROXIDE	71,525	NR	71,525
2844	GLYCOL ETHERS	56,000	NR	56,000
2865	AMMONIA	16,000	NR	16,000
2869	ETHYLENE GLYCOL	54,495	NR	54,495
2869	SODIUM HYDROXIDE	19,042	NR	19,042
2869	n-BUTYL ALCOHOL	14,887	NR	14,887

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
3052	ZINC COMPOUNDS	26,839	NR	26,839
3052	TOLUENE	8,900	28,212	19,312 **
3231	SODIUM HYDROXIDE	12,238	NR	12,238
3321	PHENOL	NR	2,948,806	2,948,806
3354	SODIUM HYDROXIDE	148,000	NR	148,000
3354	PHENOL	NR	1,323,022,282	1,323,022,282
3354	ARSENIC	NR	71,039	71,039
3423	SULFURIC ACID	155,000	NR	155,000
3423	SODIUM HYDROXIDE	230,000	NR	230,000
3423	HYDROCHLORIC ACID	225,000	NR	225,000
3425	PHENOL	NR	16,145,938	16,145,938
3471	SULFURIC ACID	14,632	NR	14,632
3471	SODIUM HYDROXIDE	14,632	NR	14,632
3471	SODIUM HYDROXIDE	18,000	NR	18,000
3471	SULFURIC ACID	36,283	NR	36,283
3471	SODIUM HYDROXIDE	31,452	NR	31,452
3471	NITRIC ACID	10,334	NR	10,334
3499	SULFURIC ACID	60,749	NR	60,749
3499	SODIUM HYDROXIDE	33,191	NR	33,191
3519	SULFURIC ACID	12,000	NR	12,000
3519	DIETHANOLAMINE	12,000	NR	12,000
3519	ARSENIC	NR	135,974	135,974
3531	DIETHANOLAMINE	30,607	NR	30,607
3622	GLYCOL ETHERS	14,732	NR	14,732
3622	SULFURIC ACID	65,179	NR	65,179
3622	SODIUM HYDROXIDE	37,847	NR	37,847
3622	HYDROCHLORIC ACID	41,901	NR	41,901
3661	GLYCOL ETHERS	15,785	NR	15,785
3674	PHOSPHORIC ACID	10,104	NR	10,104
3674	AMMONIA	11,154	NR	11,154
3674	SULFURIC ACID	12,349	NR	12,349
3674	SODIUM HYDROXIDE	31,086	NR	31,086
3674	HYDROCHLORIC ACID	67,663	NR	67,663
3675	ETHYLENE GLYCOL	42,783	NR	42,783
3676	PHENOL	NR	2,812,890	2,812,890
3713	PHOSPHORIC ACID	16,000	NR	16,000
3714	SODIUM HYDROXIDE	390,267	NR	390,267

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
3714	SULFURIC ACID	126,000	NR	126,000
3714	SODIUM HYDROXIDE	228,000	NR	228,000
3714	SULFURIC ACID	88,200	NR	88,200
3714	SODIUM HYDROXIDE	80,200	NR	80,200
3963	ALUMINUM OXIDE	16,000	NR	16,000
3999	SODIUM HYDROXIDE	10,000	NR	10,000
3999	SODIUM HYDROXIDE	15,750	NR	15,750

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

07/22/93 Facilities With Significant Discrepancies Between TRI and Pretreatment in 1989

SIC	Chemical	TRI	Pretreat	Difference
20	SULFURIC ACID	166,358	NR	166,358
20	CHLORINE	15,295	NR	15,295
20	AMMONIA	257,500	NR	257,500
2016	TOLUENE	NR	660,428	660,428
2016	CYANIDE COMPOUNDS	NR	8,521,649	8,521,649
2021	PHOSPHORIC ACID	11,200	NR	11,200
2024	PHOSPHORIC ACID	47,560	NR	47,560
2026	PHOSPHORIC ACID	12,000	NR	12,000
2026	PHENOL	NR	7,840,475	7,840,475
2070	PHOSPHORIC ACID	13,700	NR	13,700
2086	PHOSPHORIC ACID	10,660	NR	10,660
22	XYLENE	62,775	NR	62,775
22	TETRACHLOROETHYLENE	20,925	NR	20,925
22	1,2-DICHLOROBENZENE	52,313	NR	52,313
2200	ARSENIC	NR	80,057	80,057
2200	TOLUENE	NR	25,206	25,206
2200	AMMONIUM SULFATE (SOLUTION)	17,600	NR	17,600
2205	CHROMIUM	NR	11,311	11,311
2211	ARSENIC	NR	39,166	39,166
2211	PHENOL	NR	20,053,549	20,053,549
2221	TETRACHLOROETHYLENE	12,600	NR	12,600
2221	SULFURIC ACID	16,500	NR	16,500
2221	METHANOL	81,164	NR	81,164
2221	ETHYLENE GLYCOL	53,200	NR	53,200
2221	AMMONIA	26,575	NR	26,575
2221	TETRACHLOROETHYLENE	44,000	NR	44,000
2228	SULFURIC ACID	14,000	NR	14,000
2241	TOLUENE	NR	30,053	30,053
2241	SELENIUM	NR	10,018	10,018
2241	MERCURY	NR	43,410	43,410
2241	COPPER	NR	46,749	46,749
2251	AMMONIUM SULFATE (SOLUTION)	57,800	NR	57,800
2252	CHLORINE	78,000	NR	78,000
2252	AMMONIUM SULFATE (SOLUTION)	45,000	NR	45,000
2252	CHLORINE	11,250	NR	11,250
2252	CHLORINE	323,184	NR	323,184
2252	AMMONIUM SULFATE (SOLUTION)	12,000	NR	12,000

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
2252	CHLORINE	55,192	NR	55,192
2252	AMMONIUM SULFATE (SOLUTION)	11,628	NR	11,628
2252	XYLENE	10,200	NR	10,200
2252	AMMONIUM SULFATE (SOLUTION)	39,500	NR	39,500
2252	CHLORINE	67,732	NR	67,732
2252	AMMONIUM SULFATE (SOLUTION)	23,527	NR	23,527
2252	CHLORINE	21,160	NR	21,160
2252	CHLORINE	20,000	NR	20,000
2253	PHENOL	NR	63,993	63,993
2253	SILVER	NR	14,738	14,738
2253	ETHYLENE GLYCOL	10,000	NR	10,000
2257	GLYCOL ETHERS	100,000	NR	100,000
2257	FORMALDEHYDE	77,820	NR	77,820
2257	1,2-DICHLOROBENZENE	100,000	NR	100,000
2257	AMMONIA	15,327	NR	15,327
2258	XYLENE	19,325	NR	19,325
2258	TETRACHLOROETHYLENE	43,737	NR	43,737
2258	SILVER	NR	38,406	38,406
2258	ETHYLENE GLYCOL	43,488	NR	43,488
2258	BIPHENYL	13,430	NR	13,430
2258	AMMONIUM SULFATE (SOLUTION)	14,389	NR	14,389
2258	AMMONIUM SULFATE (SOLUTION)	25,850	NR	25,850
2258	SULFURIC ACID	48,183	NR	48,183
2258	HYDROCHLORIC ACID	12,865	NR	12,865
2258	TETRACHLOROETHYLENE	21,030	NR	21,030
2258	PSEUDOCUMENE	27,631	NR	27,631
2258	AMMONIUM SULFATE (SOLUTION)	57,824	NR	57,824
2258	AMMONIUM SULFATE (SOLUTION)	184,800	NR	184,800
226	SULFURIC ACID	271,000	NR	271,000
2261	GLYCOL ETHERS	38,660	NR	38,660
2261	ETHYLENE GLYCOL	55,294	NR	55,294
2262	XYLENE	131,088	NR	131,088
2262	AMMONIA	30,351	NR	30,351
2262	PHENOL	NR	21,941	21,941
2262	1,1,1-TRICHLOROETHANE	18,000	NR	18,000
2262	AMMONIUM SULFATE (SOLUTION)	48,000	NR	48,000

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

Facilities With Significant Discrepancies Between TRI and Pretreatment in 1989

SIC	Chemical	TRI	Pretreat	Difference
2262	TOLUENE	NR	62,357	62,357
2269	TETRACHLOROETHYLENE	14,243	NR	14,243
2269	BIPHENYL	12,000	NR	12,000
2269	1,2,4-TRICHLOROBENZENE	33,000	NR	33,000
2269	PHENOL	NR	405,488	405,488
2269	FLUOMETURON	125,000	NR	125,000
2269	ARSENIC	NR	140,898	140,898
2269	PHENOL	NR	18,321	18,321
2269	PHENOL	NR	14,644	14,644
2269	1,2,4-TRICHLOROBENZENE	11,854	NR	11,854
2269	TETRACHLOROETHYLENE	36,728	NR	36,728
2269	PSEUDOCUMENE	19,949	NR	19,949
2269	BIPHENYL	17,432	NR	17,432
2282	SULFURIC ACID	12,000	NR	12,000
2282	PHENOL	NR	313,266,576	313,266,576
2282	ETHYLENE GLYCOL	17,600	NR	17,600
2282	1,2,4-TRICHLOROBENZENE	56,047	NR	56,047
2284	METHANOL	248,000	NR	248,000
2284	FORMALDEHYDE	60,000	NR	60,000
2284	CHLORINE	NR	165,870	165,870
2293	PHENOL	NR	10,195	10,195
2300	CHLORINE	55,800	NR	55,800
2321	PHOSPHORIC ACID	46,640	NR	46,640
2321	TOLUENE	NR	13,465	13,465
2321	PHENOL	NR	65,112	65,112
2328	TOLUENE	NR	41,578	41,578
2328	SELENIUM	NR	22,335	22,335
2328	MERCURY	NR	13,745	13,745
2514	TOLUENE	NR	169,494	169,494
2514	MERCURY	NR	114,607	114,607
2514	LEAD	NR	171,779	171,779
2514	COPPER	NR	43,527	43,527
2641	SILVER	NR	219,335	219,335
2641	BARIUM	NR	959,204	959,204
2793	NITRIC ACID	23,100	NR	23,100
2819	AMMONIA	20,100	NR	20,100
2821	METHANOL	16,500	NR	16,500
2821	FORMALDEHYDE	58,750	NR	58,750
2821	ETHYLENE GLYCOL	43,500	NR	43,500

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
2821	TOLUENE	NR	10,502	10,502
2821	ALUMINUM (FUME OR DUST)	NR	17,723	17,723
2821	FORMALDEHYDE	10,575	NR	10,575
2821	ETHYLENE GLYCOL	13,762	NR	13,762
2821	AMMONIA	25,000	NR	25,000
2833	TOLUENE	41,000	10,559	30,441 **
2833	METHYLENE CHLORIDE	13,000	NR	13,000
2833	CHLOROFORM	52,000	NR	52,000
2833	ACETONE	140,000	NR	140,000
2834	ETHYLENE OXIDE	18,000	NR	18,000
2834	ETHYLENE GLYCOL	76,000	NR	76,000
2834	GLYCOL ETHERS	54,000	NR	54,000
2841	TOLUENE	NR	3,878,378	3,878,378
2844	TOLUENE	NR	132,097	132,097
2844	MERCURY	NR	22,355	22,355
2844	GLYCOL ETHERS	125,000	NR	125,000
2865	AMMONIA	15,000	NR	15,000
2869	ETHYLENE GLYCOL	42,310	NR	42,310
2869	TOLUENE	17,163	22	17,141 **
2869	METHANOL	15,919	NR	15,919
2869	FORMALDEHYDE	12,340	NR	12,340
2869	DIMETHYL PHTHALATE	90,712	NR	90,712
3052	ZINC COMPOUNDS	22,423	NR	22,423
3052	TOLUENE	2,703	18,536	15,833 **
3069	METHANOL	16,600	NR	16,600
3281	PHENOL	NR	16,592	16,592
329	PHENOL	38,200	NR	38,200
3321	PHENOL	NR	5,606,623	5,606,623
3354	PHENOL	NR	700,444	700,444
3356	MANGANESE AND COMPOUNDS	NR	21,781	21,781
3425	PHENOL	NR	26,980,692	26,980,692
3444	ARSENIC	NR	10,331	10,331
3471	TOLUENE	NR	2,208,580	2,208,580
3471	MERCURY	NR	1,099,699	1,099,699
3471	LEAD	NR	409,861	409,861
3471	SELENIUM	NR	438,807	438,807
3471	MERCURY	NR	487,337	487,337

All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
3471	SULFURIC ACID	18,513	NR	18,513
3471	NITRIC ACID	14,058	NR	14,058
3499	SULFURIC ACID	88,257	NR	88,257
3553	ETHYLENE GLYCOL	10,700	NR	10,700
3613	PHENOL	NR	4,605,043	4,605,043
3622	SILVER	NR	129,797	129,797
3622	GLYCOL ETHERS	21,500	NR	21,500
3646	ETHYLENE GLYCOL	83,000	NR	83,000
3672	PHENOL	NR	140,504	140,504
3675	ETHYLENE GLYCOL	19,226	NR	19,226
3676	PHENOL	NR	348,081	348,081
3692	PHENOL	NR	12,485,779	12,485,779
3713	PHOSPHORIC ACID	19,000	NR	19,000
3714	TOLUENE	NR	10,093	10,093
3714	PHENOL	NR	45,334,578	45,334,578
3732	TOLUENE	0	10,763	10,763 **
3964	XYLENE	27,000	NR	27,000
3999	ARSENIC	NR	16,894	16,894

SIC	Chemical	TRI	Pretreat	Difference
	CHLORINE	52,463	NR	52,463
	AMMONIA	16,145	NR	16,145
20	SULFURIC ACID	30,000	NR	30,000
20	AMMONIA	228,500	NR	228,500
2015	AMMONIA	29,000	NR	29,000
2015	AMMONIA	31,000	NR	31,000
2016	CYANIDE COMPOUNDS	NR	12,067	12,067
2016	AMMONIA	38,000	NR	38,000
2021	PHOSPHORIC ACID	21,000	NR	21,000
2024	PHENOL	NR	1,492,663	1,492,663
2024	PHOSPHORIC ACID	26,464	NR	26,464
2026	PHOSPHORIC ACID	11,600	NR	11,600
2070	PHOSPHORIC ACID	20,000	NR	20,000
2077	AMMONIA	60,824	NR	60,824
2082	AMMONIA	18,000	NR	18,000
22	XYLENE	24,300	NR	24,300
22	1,2-DICHLOROBENZENE	20,250	NR	20,250
2211	ARSENIC	NR	55,992	55,992
2221	METHANOL	66,973	NR	66,973
2221	AMMONIA	24,433	NR	24,433
2221	TETRACHLOROETHYLENE	28,000	NR	28,000
2228	SULFURIC ACID	10,500	NR	10,500
2231	CADMIUM	NR	10,162	10,162
2251	AMMONIUM SULFATE (SOLUTION)	59,350	NR	59,350
2251	PHENOL	NR	664,365	664,365
2251	PHENOL	NR	230,844,779	230,844,779
2251	AMMONIA	20,038	NR	20,038
2251	AMMONIUM SULFATE (SOLUTION)	60,000	NR	60,000
2252	PHENOL	NR	10,707	10,707
2252	XYLENE	13,600	NR	13,600
2252	TETRACHLOROETHYLENE	15,500	NR	15,500
2252	AMMONIUM SULFATE (SOLUTION)	34,080	NR	34,080

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and Pretreatment

07/22/93 Facilities With Significant Discrepancies Between TRI and Pretreatment in 1990

SIC	Chemical	TRI	Pretreat	Difference
2252	AMMONIUM SULFATE (SOLUTION)	39,000	NR	39,000
2252	PHENOL	NR	11,332	11,332
2252	AMMONIUM SULFATE (SOLUTION)	27,700	NR	27,700
2252	CHLORINE	23,250	NR	23,250
2253	PHENOL	NR	53,577	53,577
2253	ETHYLENE GLYCOL	10,000	NR	10,000
2253	MERCURY	NR	20,359	20,359
2257	BIPHENYL	14,000	NR	14,000
2257	FORMALDEHYDE	102,000	NR	102,000
2258	XYLENE	13,000	NR	13,000
2258	ETHYLENE GLYCOL	28,000	NR	28,000
2258	ZINC	NR	76,191	76,191
2258	CADIUM	NR	35,556	35,556
2258	TETRACHLOROETHYLENE	31,161	NR	31,161
2258	AMMONIUM SULFATE (SOLUTION)	60,400	NR	60,400
2258	XYLENE	22,500	NR	22,500
2261	AMMONIUM SULFATE (SOLUTION)	32,000	NR	32,000
2261	AMMONIA	147,000	NR	147,000
2261	GLYCOL ETHERS	33,026	NR	33,026
2261	ETHYLENE GLYCOL	28,907	NR	28,907
2262	XYLENE	131,088	NR	131,088
2262	AMMONIA	31,764	NR	31,764
2262	TETRACHLOROETHYLENE	10,000	NR	10,000
2262	PHENOL	NR	31,378	31,378
2262	MERCURY	NR	15,500	15,500
2262	DECABROMODIPHENYL OXIDE	14,800	NR	14,800
2262	1,1,1-TRICHLOROETHANE	20,000	NR	20,000
2262	AMMONIUM SULFATE (SOLUTION)	43,165	NR	43,165
2262	AMMONIA	14,000	NR	14,000
2269	TETRACHLOROETHYLENE	11,713	NR	11,713
2269	BIPHENYL	12,800	NR	12,800
2269	PHENOL	NR	495,427	495,427

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and Pretreatment

07/22/93 Facilities With Significant Discrepancies Between TRI and Pretreatment in 1990

SIC	Chemical	TRI	Pretreat	Difference
2269	FLUOMETURON	81,000	NR	81,000
2269	PHENOL	NR	18,385	18,385
2269	PHENOL	NR	8,400,459	8,400,459
2269	PHENOL	NR	17,658	17,658
2269	1,2,4-TRICHLOROBENZENE	20,817	NR	20,817
2269	PSEUDOCUMENE	16,946	NR	16,946
2269	BIPHENYL	26,164	NR	26,164
2282	PHENOL	NR	264,679,317	264,679,317
2282	ETHYLENE GLYCOL	18,000	NR	18,000
2282	1,2,4-TRICHLOROBENZENE	51,000	NR	51,000
2284	METHANOL	208,000	NR	208,000
2284	FORMALDEHYDE	46,000	NR	46,000
2284	CHLORINE	NR	156,388	156,388
2300	CHLORINE	42,000	NR	42,000
2321	PHENOL	NR	62,995	62,995
2321	MERCURY	NR	25,475	25,475
2322	PHENOL	NR	3,515,921	3,515,921
2439	CHLORINE	NR	10,289	10,289
2793	NITRIC ACID	26,880	NR	26,880
2821	METHANOL	13,040	NR	13,040
2821	FORMALDEHYDE	90,520	NR	90,520
2821	ETHYLENE GLYCOL	48,180	NR	48,180
2821	AMMONIA	25,000	NR	25,000
2833	TOLUENE	53,000	69,077	16,077 **
2833	METHYLENE CHLORIDE	23,000	NR	23,000
2833	CHLOROFORM	75,000	NR	75,000
2833	AMMONIA	40,000	NR	40,000
2833	ACETONE	141,000	NR	141,000
2834	METHANOL	38,297	NR	38,297
2834	ARSENIC	NR	14,736	14,736
2834	GLYCOL ETHERS	50,000	NR	50,000
2843	PHENOL	NR	65,801	65,801
2844	GLYCOL ETHERS	74,000	NR	74,000
2865	AMMONIA	12,000	NR	12,000
2869	ETHYLENE GLYCOL	15,570	NR	15,570
2869	TOLUENE	10,297	21	10,276 **
2869	METHANOL	13,560	NR	13,560

All quantities reported in lbs. NR = Not Reported ** = Values reported to both TRI and Pretreatment

SIC	Chemical	TRI	Pretreat	Difference
2869	FORMALDEHYDE	14,741	NR	14,741
2869	DIMETHYL PHTHALATE	48,880	NR	48,880
2869	n-BUTYL ALCOHOL	32,000	NR	32,000
3069	METHANOL	22,173	NR	22,173
3188	HYDROCHLORIC ACID	22,000	NR	22,000
329	PHENOL	46,000	NR	46,000
329	BARIUM COMPOUNDS	1,900,000	NR	1,900,000
3321	PHENOL	NR	3,506,294	3,506,294
3411	PHENOL	NR	154,537	154,537
3425	PHENOL	NR	28,328,606	28,328,606
3471	TOLUENE	NR	190,005	190,005
3471	SILVER	NR	14,218	14,218
3471	SELENIUM	NR	19,388	19,388
3471	MERCURY	NR	16,803	16,803
3471	LEAD	NR	20,681	20,681
3471	COPPER	NR	23,266	23,266
3496	PHENOL	NR	98,391	98,391
3499	SULFURIC ACID	91,650	NR	91,650
3519	SULFURIC ACID	57,243	NR	57,243
3519	DIETHANOLAMINE	14,456	NR	14,456
3553	GLYCOL ETHERS	37,239	NR	37,239
3612	TOLUENE	0	54,936	54,936 **
3612	SELENIUM	NR	13,734	13,734
3612	MERCURY	NR	68,670	68,670
3612	LEAD	NR	20,601	20,601
3612	COPPER	NR	13,734	13,734
3622	GLYCOL ETHERS	26,687	NR	26,687
3676	PHENOL	NR	83,356	83,356
3692	PHENOL	NR	19,666,082	19,666,082
3713	PHOSPHORIC ACID	12,000	NR	12,000
3714	PHENOL	NR	66,831,600	66,831,600
3999	ARSENIC	NR	15,981	15,981

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All quantities reported in lbs.

NR = Not Reported

** = Values reported to both TRI and Pretreatment

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000002			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	0	3,561
F002	14,500	10,120	14,273
F005	500	0	0
Waste Total	15,000	10,120	17,834

Facility 000002			
F-Waste Constituents Reported to TRI:			
FREON 113	2,034	5,710	13,800
METHYLENE CHLORIDE	2,033	5,710	0
Constituent Total	4,067	11,420	13,800
F-Wastes Reported to NCAR:			
F002	4,067	22,836	19,310
F003	26,120	32,505	51,300
Waste Total	30,187	55,341	70,610

Facility 000007			
F-Waste Constituents Reported to TRI:			
BENZENE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHANOL	0	9,360	10,415
TOLUENE	0	0	0
Constituent Total	0	9,360	10,415
F-Wastes Reported to NCAR:			
F001	72,320	0	0
Waste Total	72,320	0	0

Facility 000009			
F-Waste Constituents Reported to TRI:			
FREON 113	48,670	88,085	198,212
METHYLENE CHLORIDE	11,000	0	0
Constituent Total	59,670	88,085	198,212
F-Wastes Reported to NCAR:			
D001F003F005	0	0	5,580
D003F002	0	0	172,682
F002	108,242	229,271	348,692
Waste Total	108,242	229,271	526,954

Facility 000010			
F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	0	0	0
1,1,1-TRICHLOROETHANE	231	0	0
Constituent Total	231	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

F-Wastes Reported to NCAR:			
D001F002F003	0	0	335
D001F003F005	0	0	459
D005F002	0	0	250
D007F001	0	0	139
F001	73,170	1,237	627
F002	11,541	1,541	3,376
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Waste Total	84,711	2,778	5,186

Facility 000011

F-Waste Constituents Reported to TRI:			
METHANOL	0	0	0
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Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F003F005U117	0	0	100
D019F002	0	0	417
D035F005	0	0	1,850
F001	0	800	0
F002	293,690	58,104	0
F003	0	300	0
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Waste Total	293,690	59,204	2,367

Facility 000012

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
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Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	994	0	0
F002	0	35	0
	-----	-----	-----
Waste Total	994	35	0

Facility 000017

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
BENZENE	0	26	0
METHANOL	0	0	0
TOLUENE	0	130	0
XYLENE	0	800	0
	-----	-----	-----
Constituent Total	0	956	0
F-Wastes Reported to NCAR:			
F003F005	0	2,888	0
F005	1,475	0	0
	-----	-----	-----
Waste Total	1,475	2,888	0

Facility 000024

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
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Constituent Total	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

F-Wastes Reported to NCAR:			
F001	8,065	0	0
Waste Total	8,065	0	0

Facility 000028

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F003	0	178,900	0
D035F003F005	0	0	199,838
F005	293,920	219,585	0
Waste Total	293,920	398,485	199,838

Facility 000032

F-Waste Constituents Reported to TRI:

ACETONE	2,678	4,553	3,050
n-BUTYL ALCOHOL	560	1,468	0
CYCLOHEXANE	3,896	0	6,664
METHYL ETHYL KETONE (MEK)	3,653	8,813	7,682
METHYL ISOBUTYL KETONE	730	1,908	1,743
TOLUENE	3,409	5,973	7,407
XYLENE	1,461	0	0
Constituent Total	16,387	22,715	26,546

F-Wastes Reported to NCAR:

F003	40,590	69,955	43,576
Waste Total	40,590	69,955	43,576

Facility 000033

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
XYLENE	2,052	1,868	1,878
Constituent Total	2,052	1,868	1,878

F-Wastes Reported to NCAR:

F003	2,052	1,868	1,878
Waste Total	2,052	1,868	1,878

Facility 000034

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F-Wastes Reported to NCAR:			
F001	1,407	0	0
F005	173	0	0
Waste Total	1,580	0	0

Facility 000038

F-Waste Constituents Reported to TRI:			
FREON 113	19,200	0	0
METHYL ETHYL KETONE (MEK)	21,600	13,275	11,931
1,1,1-TRICHLOROETHANE	10,800	1,200	0
Constituent Total	51,600	14,475	11,931

F-Wastes Reported to NCAR:			
F001	3,150	1,210	1,300
F002	19,200	14,571	1,850
F003	21,600	26,060	0
F003F005	0	0	99,770
Waste Total	43,950	41,841	102,920

Facility 000040

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	5,337	7,339
Constituent Total	0	5,337	7,339

F-Wastes Reported to NCAR:			
D001D002F003F005	0	0	1,520
D007F005	0	800	0
F001	729	5,337	7,339
F003	1,750	1,900	0
F003F005	0	1,167	3,723
Waste Total	2,479	9,204	12,582

Facility 000042

F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	0	0
TRICHLOROETHYLENE	692	541	610
Constituent Total	692	541	610

F-Wastes Reported to NCAR:			
D001F001	0	9,016	0
D001F005	0	6,462	6,928
F001	11,537	0	10,893
F005	5,878	0	0
Waste Total	17,415	15,478	17,821

Facility 000046

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
ETHYLBENZENE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	0	85,173
F003F005	0	117,920	0
F005	101,640	0	0
Waste Total	101,640	117,920	85,173

Facility 000047

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	13,027	750	250
METHYL ETHYL KETONE (MEK)	12,261	750	250
METHANOL	16,859	750	250
TOLUENE	26,822	750	750
XYLENE	5,364	750	250
Constituent Total	74,333	3,750	1,750
F-Wastes Reported to NCAR:			
F003	0	270,102	192,154
Waste Total	0	270,102	192,154

Facility 000048

F-Waste Constituents Reported to TRI:			
FREON 113	11,586	13,544	6,532
1,1,1-TRICHLOROETHANE	4,928	0	4,400
Constituent Total	16,514	13,544	10,932
F-Wastes Reported to NCAR:			
D001F002F005	0	4,400	0
F001	0	15,080	900
F001F003F005	0	1,800	4,400
F002	19,800	0	0
F002F003	0	11,900	0
F002F003F004	0	1,200	0
F002F005	0	0	7,100
F003	0	4,000	0
F005	0	800	0
Waste Total	19,800	39,180	12,400

Facility 000052

F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	25,560	0	0
F003F005	0	40,200	90,800
Waste Total	25,560	40,200	90,800

Facility 000053

F-Waste Constituents Reported to TRI:

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	59,739	0
Waste Total	0	59,739	0
Facility 000056			
F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	0	0	0
TOLUENE	0	750	250
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	750	250
F-Wastes Reported to NCAR:			
F001	4,390	3,044	2,656
F003	0	587	341
F003F005	0	1,355	1,840
F005	17,117	12,469	9,684
Waste Total	21,507	17,455	14,521
Facility 000059			
F-Waste Constituents Reported to TRI:			
D002F003	0	0	758
F002	2,574	0	0
F003	0	328	0
Waste Total	2,574	328	758
Facility 000060			
F-Waste Constituents Reported to TRI:			
ACETONE	0	4,300	10
n-BUTYL ALCOHOL	0	2,250	500
METHANOL	1,142	2,250	500
TOLUENE	15,197	2,250	500
XYLENE	498	2,250	500
Constituent Total	16,837	13,300	2,010
F-Wastes Reported to NCAR:			
F003	32,560	31,640	35,840
Waste Total	32,560	31,640	35,840
Facility 000061			
F-Waste Constituents Reported to TRI:			
TETRACHLOROETHYLENE	1,564	0	0
TOLUENE	6,912	2,712	6,484
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	8,476	2,712	6,484
F-Wastes Reported to NCAR:			
D001F002	0	0	32,800
D001F005	0	0	400
F002	146,400	258,908	229,000
F002F005	0	0	32,000

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

2372

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F003	2,400	6,731	28,400
F005	3,200	392	0
Waste Total	152,000	266,031	322,600

Facility 000075

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	39,847	25,426
F005	28,490	0	0
Waste Total	28,490	39,847	25,426

Facility 000078

F-Waste Constituents Reported to TRI:

ACETONE	0	2,328	0
n-BUTYL ALCOHOL	2,760	0	0
METHANOL	0	0	0
TOLUENE	12,200	0	0
1,1,1-TRICHLOROETHANE	94,905	55,200	0
XYLENE	5,450	0	0
Constituent Total	115,315	57,528	0

F-Wastes Reported to NCAR:

F001	93,520	78,712	60,500
F002	1,400	0	0
F002F003	0	10,000	0
F002F004	0	0	1,200
Waste Total	94,920	88,712	61,700

Facility 000080

F-Waste Constituents Reported to TRI:

XYLENE	0	11,000	12,000
Constituent Total	0	11,000	12,000

F-Wastes Reported to NCAR:

D001F003	0	5,995	0
F003	14,000	6,400	458
F003F005	0	7,339	3,720
F005	20,020	0	0
Waste Total	34,020	19,734	4,178

Facility 000081

F-Waste Constituents Reported to TRI:

FREON 113	0	46	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	46	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F-Wastes Reported to NCAR:			
F001	7,578	10,212	8,205
F003	0	0	385
F003F005	0	0	1,142
Waste Total	7,578	10,212	9,732

Facility 000083

F-Waste Constituents Reported to TRI:			
F001	7,285	2,566	0
Waste Total	7,285	2,566	0

Facility 000086

F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
F002	263,968	160,768	150,644
Waste Total	263,968	160,768	150,644

Facility 000087

F-Waste Constituents Reported to TRI:			
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
F003F005	0	12,800	17,600
F005	11,600	0	0
Waste Total	11,600	12,800	17,600

Facility 000090

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
F003F005	0	15,200	14,400
F005	20,000	0	6,797
Waste Total	20,000	15,200	21,197

Facility 000091

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	38,800	42,000
F005	43,200	0	0
Waste Total	43,200	38,800	42,000

Facility 000092

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	70,400	40,000
F005	40,800	0	0
Waste Total	40,800	70,400	40,000

Facility 000093

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	66,000	86,000
F005	64,000	0	0
Waste Total	64,000	66,000	86,000

Facility 000094

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	62,000	0
F005	44,800	0	0
Waste Total	44,800	62,000	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000098			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
F003F005	0	67,200	86,800
F005	56,000	0	0
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Waste Total	56,000	67,200	86,800

Facility 000099

F-Waste Constituents Reported to TRI:			
ACETONE	130,000	11,750	19,255
n-BUTYL ALCOHOL	250	750	5
METHYL ETHYL KETONE (MEK)	0	14,750	23,155
METHANOL	0	7,750	9,355
METHYL ISOBUTYL KETONE	0	14,750	2,900
TOLUENE	110,000	53,750	60,255
XYLENE	120,000	35,750	20,955
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Constituent Total	360,250	139,250	135,880

F-Wastes Reported to NCAR:			
D001D009F003F005	0	0	8,800
D001F003F005	0	352,220	304,989
F005	625,193	0	0
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Waste Total	625,193	352,220	313,789

Facility 000100

F-Waste Constituents Reported to TRI:			
FREON 113	7,500	10,265	5,075
METHYLENE CHLORIDE	86,400	32,100	22,800
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Constituent Total	93,900	42,365	27,875

F-Wastes Reported to NCAR:			
F001	0	2,000	2,400
F002	115,250	38,400	19,800
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Waste Total	115,250	40,400	22,200

Facility 000105

F-Waste Constituents Reported to TRI:			
D001F001	0	0	7,480
F001	2,100	1,000	0
F002	900	0	0
F003	0	542	880
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Waste Total	3,000	1,542	8,360

Facility 000106

F-Waste Constituents Reported to TRI:

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	12,400	0	0
F003F005	0	26,000	0
F005	21,200	0	18,400
Waste Total	33,600	26,000	18,400

Facility 000109

F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	1,368	0	0
F002	184,964	198,175	69,467
Waste Total	186,332	198,175	69,467

Facility 000115

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	5,850	4,219	20,620
F003	196	0	2,378
F005	0	1,236	100
Waste Total	6,046	5,455	23,098

Facility 000117

F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	21,800	0	400
F002	6,600	2,500	500
F002F003F005	0	800	0
F003	0	0	400
F003F005	0	16,100	8,800
F005	15,900	800	1,200
Waste Total	44,300	20,200	11,300

Facility 000120

F-Waste Constituents Reported to TRI:

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
METHYL ETHYL KETONE (MEK)	0	750	0
TOLUENE	0	750	250
XYLENE	0	1,500	0
Constituent Total	0	3,000	250
F-Wastes Reported to NCAR:			
F002F003	0	77,360	65,814
F003F005	0	32,400	0
F005	116,640	0	0
Waste Total	116,640	109,760	65,814

Facility 000123

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
F005	38,800	57,200	56,100
Waste Total	38,800	57,200	56,100

Facility 000124

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	2,958	3,383	1,605
Constituent Total	2,958	3,383	1,605

F-Wastes Reported to NCAR:			
F001	2,958	3,383	1,605
Waste Total	2,958	3,383	1,605

Facility 000131

F-Waste Constituents Reported to TRI:			
CRESOL(S)	0	750	500
FREON 113	0	0	0
METHYL ETHYL KETONE (MEK)	13,632	6,245	8,350
TETRACHLOROETHYLENE	14,725	2,562	11,000
XYLENE	0	0	0
Constituent Total	28,357	9,557	19,850

F-Wastes Reported to NCAR:			
F001	18,406	50,033	13,595
F002	0	11,365	7,761
F003	3,143	1,792	3,477
F004	1,040	2,750	8,414
Waste Total	22,589	65,940	33,247

Facility 000134

F-Waste Constituents Reported to TRI:			
ACETONE	1,979	750	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
n-BUTYL ALCOHOL	0	750	0
ETHYLBENZENE	0	750	0
METHYL ETHYL KETONE (MEK)	15,804	750	0
METHANOL	10,346	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	3,631	0	0
XYLENE	1,246	750	0
Constituent Total	33,006	3,750	0
F-Wastes Reported to NCAR:			
F003	1,280,234	1,717,351	0
F005	751,832	0	1,027,695
Waste Total	2,032,066	1,717,351	1,027,695

Facility 000137

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
CYCLOHEXANE	0	0	0
ETHYLBENZENE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHYLENE CHLORIDE	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TETRACHLOROETHYLENE	0	0	0
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
TRICHLOROETHYLENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003	187,110	0	0
F003F005	0	339,041	295,827
Waste Total	187,110	339,041	295,827

Facility 000139

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
TOLUENE	2	16,373	370
Constituent Total	2	16,373	370

F-Wastes Reported to NCAR:

F005	16,100	24,640	110,120
Waste Total	16,100	24,640	110,120

Facility 000141

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F005	0	5,540	0
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	0	5,540	0

Facility 000142

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
D001D022D023F003	0	0	4,000
D001F001	0	0	1,500
F001	400	0	3,800
F002	1,050	0	2,350
F003	800	0	0
F003F004	0	3,500	0
F005	6,600	0	0
Waste Total	8,850	3,500	11,650

Facility 000143

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
F001	208,250	0	0
Waste Total	208,250	0	0

Facility 000144

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	7,792	0	0
METHANOL	43,781	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	51,573	0	0

F-Wastes Reported to NCAR:			
F003	70,320	0	79,100
F005	0	1,392	84,750
Waste Total	70,320	1,392	163,850

Facility 000148

F-Waste Constituents Reported to TRI:			
D001D039F003F005	0	0	5,021
D001F003	0	8,340	0
F003	7,440	0	417
Waste Total	7,440	8,340	5,438

Facility 000149

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	1,579	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
TETRACHLOROETHYLENE	0	0	0
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	0	872	0
XYLENE	178	394	0
Constituent Total	1,757	1,266	0
F-Wastes Reported to NCAR:			
D001D002D007F002	0	0	2,507
D001F001F003F005	0	24,690	0
D002D007D008F002	0	40,876	18,585
F001	5,600	0	0
F002	31,376	0	0
Waste Total	36,976	65,566	21,092
Facility 000151			
F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	6,232	1,802	1,588
F003	8	4,136	4,634
Waste Total	6,240	5,938	6,222
Facility 000156			
F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	42,940	32,696
Waste Total	0	42,940	32,696
Facility 000157			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	982	0
F003F005	0	683	0
Waste Total	0	1,665	0
Facility 000163			
F-Waste Constituents Reported to TRI:			
F002	0	3,576	1,787
Waste Total	0	3,576	1,787
Facility 000164			
F-Waste Constituents Reported to TRI:			
FREON 113	46	750	5

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
1,1,1-TRICHLOROETHANE	71	750	5
Constituent Total	117	1,500	10
F-Wastes Reported to NCAR:			
D001F002U075U121	0	0	161
D001F003F005	0	196	0
D008F002	0	466	219
F001	77,034	103,784	63,315
F002	113,160	104,704	89,691
F002U226	0	173	0
F003	1,799	0	0
F005	1,394	0	0
Waste Total	193,387	209,323	153,386

Facility 000165

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHYLENE CHLORIDE	0	0	0
TOLUENE	0	0	0
* 1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	244,464	147,613	0
F003	395,733	306,882	352,849
Waste Total	640,197	454,495	352,849

Facility 000170

F-Waste Constituents Reported to TRI:			
F001	0	550	125
F003	1,720	0	0
Waste Total	1,720	550	125

Facility 000171

F-Waste Constituents Reported to TRI:			
F001	750	0	0
Waste Total	750	0	0

Facility 000174

F-Waste Constituents Reported to TRI:			
D001D005F002F005	0	1,000	0
Waste Total	0	1,000	0

Facility 000176

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHYLENE CHLORIDE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	107,500	68,961	43,355
F003	26,600	21,063	23,001

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F005	482	440	1,213
Waste Total	134,582	90,464	67,569

Facility 000177

F-Waste Constituents Reported to TRI:

ACETONE	0	80	0
n-BUTYL ALCOHOL	0	80	78
METHANOL	0	140	0
TOLUENE	0	800	565
XYLENE	0	40	0
Constituent Total	0	1,140	643

F-Wastes Reported to NCAR:

D001F003F005K086	0	0	857,997
F002	0	0	1,320
Waste Total	0	0	859,317

Facility 000180

F-Waste Constituents Reported to TRI:

ACETONE	7,327	0	0
METHYL ETHYL KETONE (MEK)	26,308	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	7,327	0	0
XYLENE	7,327	0	0
Constituent Total	48,289	0	0

F-Wastes Reported to NCAR:

D001D034F003F005	0	0	111,600
D001F003F005	0	0	29,400
F001	0	7,030	0
F003	25,528	0	0
F003F005	0	146,700	0
Waste Total	25,528	153,730	141,000

Facility 000184

F-Waste Constituents Reported to TRI:

n-BUTYL ALCOHOL	8,200	5,500	4,551
ETHYLBENZENE	0	750	750
METHYL ETHYL KETONE (MEK)	0	0	0
METHYL ISOBUTYL KETONE	0	0	5
TOLUENE	10,600	7,000	3,850
XYLENE	0	750	3,760
Constituent Total	18,800	14,000	12,916

F-Wastes Reported to NCAR:

D005D008F005	0	0	6,600
F003	0	0	14,107
F003F005	0	0	861,945
F005	996,197	884,181	0
Waste Total	996,197	884,181	882,652

Facility 000185

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	827	900	890
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
METHANOL	2,388	1,500	1,660
TOLUENE	1,194	1,200	1,170
XYLENE	695	700	620
Constituent Total	5,104	4,300	4,340
F-Wastes Reported to NCAR:			
F003	0	6,930	0
F003F005	0	0	6,504
F005	13,600	0	0
Waste Total	13,600	6,930	6,504
Facility 000187			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0
*XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001D035F003F005	0	0	38,850
F003F005	0	64,050	0
F005	50,050	0	0
Waste Total	50,050	64,050	38,850
Facility 000195			
F-Waste Constituents Reported to TRI:			
D001F003	0	25	0
Waste Total	0	25	0
Facility 000196			
F-Waste Constituents Reported to TRI:			
F003	20,753	459	0
Waste Total	20,753	459	0
Facility 000199			
F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
METHANOL	0	0	0
TETRACHLOROETHYLENE	0	750	5
Constituent Total	0	750	5
F-Wastes Reported to NCAR:			
D002F003	0	550	0
F001	66,680	64,066	63,972
F002	410	0	5,855
F003	22,978	0	40
F003F005	0	11,676	11,167
F005	790	0	0
F005F006	0	5,753	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	90,858	82,045	81,034

Facility 000200

F-Waste Constituents Reported to TRI:

ACETONE	425	1,275	5
n-BUTYL ALCOHOL	1,187	2,864	250
METHYL ETHYL KETONE (MEK)	781	1,762	250
METHANOL	746	1,749	250
TOLUENE	2,092	2,253	250
XYLENE	1,662	0	250
Constituent Total	6,893	9,903	1,255

F-Wastes Reported to NCAR:

D001F003F005	0	17,700	137,400
F003	12,000	0	0
F003F005	0	15,000	0
Waste Total	12,000	32,700	137,400

Facility 000201

F-Waste Constituents Reported to TRI:

METHYLENE CHLORIDE	4,423	1,000	0
METHANOL	0	0	0
Constituent Total	4,423	1,000	0

F-Wastes Reported to NCAR:

F002	5,555	1,000	2,515
F003	200	480	500
F005	0	60	750
Waste Total	5,755	1,540	3,765

Facility 000205

F-Waste Constituents Reported to TRI:

METHANOL	4,482	4,611	0
Constituent Total	4,482	4,611	0

F-Wastes Reported to NCAR:

F003	160,160	137,240	35,530
F003F005	0	3,670	0
Waste Total	160,160	140,910	35,530

Facility 000207

F-Waste Constituents Reported to TRI:

n-BUTYL ALCOHOL	3,510	3,713	0
METHYL ETHYL KETONE (MEK)	10,200	10,313	0
TOLUENE	32,700	33,000	0
XYLENE	3,510	3,548	0
Constituent Total	49,920	50,574	0

F-Wastes Reported to NCAR:

F003	364,995	935	0
F003F005	0	513,975	551,775
F005	44,550	0	0
Waste Total	409,545	514,910	551,775

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000208			
F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	107	228
ETHYLBENZENE	0	141	294
METHYL ETHYL KETONE (MEK)	0	1,766	3,420
METHANOL	0	0	930
METHYL ISOBUTYL KETONE	0	140	601
TOLUENE	0	2,889	4,500
1,1,1-TRICHLOROETHANE	0	183	620
XYLENE	0	2,748	4,500
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Constituent Total	0	7,974	15,093
F-Wastes Reported to NCAR:			
D001F003	0	41,043	0
F003	812,371	720,336	0
F003F005	0	0	664,569
F005	2,295	0	0
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Waste Total	814,666	761,379	664,569
Facility 000210			
F-Waste Constituents Reported to TRI:			
TOLUENE	0	0	0
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Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D002D007F005	0	140	0
F001F002F003F005	0	4,950	0
F002	0	0	20
F003	0	0	250
F005U019U228	0	500	0
	-----	-----	-----
Waste Total	0	5,590	270
Facility 000211			
F-Waste Constituents Reported to TRI:			
ACETONE	2,700	4,200	3,846
n-BUTYL ALCOHOL	0	0	1,051
METHYL ETHYL KETONE (MEK)	28,000	750	250
METHANOL	0	2,500	2,299
TOLUENE	12,300	11,000	10,951
XYLENE	0	750	0
	-----	-----	-----
Constituent Total	43,000	19,200	18,397
F-Wastes Reported to NCAR:			
F003F005	0	45,790	53,502
F005	70,854	0	0
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Waste Total	70,854	45,790	53,502
Facility 000212			
F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	0	18,200	28,400
1,1,1-TRICHLOROETHANE	0	0	0
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Constituent Total	0	18,200	28,400

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	----- Lbs Transferred Off-site -----		
	1988	1989	1990

F-Wastes Reported to NCAR:			
F002	10,907	19,705	32,754
F003	420	0	0
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Waste Total	11,327	19,705	32,754

Facility 000214

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003	78,860	0	0
F003F005	0	40,400	0
F005	18,686	0	37,200
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Waste Total	97,546	40,400	37,200

Facility 000217

F-Waste Constituents Reported to TRI:

FREON 113	0	0	0
METHANOL	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F002	57,758	13,000	5,481
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Waste Total	57,758	13,000	5,481

Facility 000218

F-Waste Constituents Reported to TRI:

FREON 113	0	0	0
METHANOL	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F002	0	9,368	11,778
F002	20,681	17,860	9,984
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Waste Total	20,681	27,228	21,762

Facility 000225

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	0	2,752	3,327
	-----	-----	-----
Constituent Total	0	2,752	3,327

F-Wastes Reported to NCAR:

F001	64,527	49,275	0
F003	7,200	2,400	0
F005	6,000	0	440

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	77,727	51,675	440

Facility 000229

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Constituent Total 0 0 0

F-Wastes Reported to NCAR:

D001D008F003F005	0	0	75,600
F003F005	0	42,000	0
F005	48,400	0	0

Waste Total 48,400 42,000 75,600

Facility 000233

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Constituent Total 0 0 0

F-Wastes Reported to NCAR:

D035F003F005	0	0	136,320
F003	140,197	0	0
F003F005	0	132,210	0

Waste Total 140,197 132,210 136,320

Facility 000235

F-Waste Constituents Reported to TRI:

F003	0	40	0
F003U036	0	10	0
F005	0	90	0

Waste Total 0 140 0

Facility 000236

F-Waste Constituents Reported to TRI:

n-BUTYL ALCOHOL	0	0	0
CYCLOHEXANE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0

Constituent Total 0 0 0

F-Wastes Reported to NCAR:

F002	2,440	0	0
F005	159,497	114,538	86,609

Waste Total 161,937 114,538 86,609

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

----- Lbs Transferred Off-site -----

Constituent/Waste Code	1988	1989	1990
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Facility 000244

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001D008F003F005	0	0	38,094
F003F005	0	29,200	0
F005	30,471	0	0
Waste Total	30,471	29,200	38,094

Facility 000247

F-Waste Constituents Reported to TRI:

ACETONE	55,722	79,347	1,461
Constituent Total	55,722	79,347	1,461

F-Wastes Reported to NCAR:

D001F003	0	0	115
D002F003	0	800	0
F001	0	7	0
F002	5,900	810	0
F003	199,684	204,153	88,400
F003F005	0	440	0
F004	4,440	5,100	0
F005	80	120	0
Waste Total	210,104	211,430	88,515

Facility 000250

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	16,215	10,285	2,160
Constituent Total	16,215	10,285	2,160

F-Wastes Reported to NCAR:

F001	6,600	0	560
F001F002	0	8,415	3,645
F003	5,325	0	0
F003F005	0	25,712	14,958
Waste Total	11,925	34,127	19,163

Facility 000251

F-Waste Constituents Reported to TRI:

n-BUTYL ALCOHOL	29,094	0	0
METHANOL	33,210	750	250
NITROBENZENE	24,530	7,146	6,850
TOLUENE	19,020	5,490	2,750
Constituent Total	105,854	13,386	9,850

F-Wastes Reported to NCAR:

D038F003	0	0	120
F002	0	240	490

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F002F005	0	0	240
F003	58,187	860	180
F003F005	0	204,320	0
F005	64,456	39,134	122,282
Waste Total	122,643	244,554	123,312

Facility 000253

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	830	0	0
Constituent Total	830	0	0

F-Wastes Reported to NCAR:

D001F003	0	737	7,315
F002	4,200	0	0
F003	14,317	737	0
F003F005	0	1,320	3,828
Waste Total	18,517	2,794	11,143

Facility 000255

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	75,750	64,000	500
Constituent Total	75,750	64,000	500

F-Wastes Reported to NCAR:

F001	161,570	1,964	1,727
F002	4,400	800	14,500
F003F005	0	0	5,013
F005	0	20,601	4,320
Waste Total	165,970	23,365	25,560

Facility 000257

F-Waste Constituents Reported to TRI:

TETRACHLOROETHYLENE	0	0	3,713
Constituent Total	0	0	3,713

F-Wastes Reported to NCAR:

D001F003F005	0	0	33,000
F001	0	0	4,900
F003	402	0	0
Waste Total	402	0	37,900

Facility 000258

F-Waste Constituents Reported to TRI:

ACETONE	7,102	8,465	0
n-BUTYL ALCOHOL	14,203	0	1,007
METHYL ETHYL KETONE (MEK)	0	0	1,926
METHANOL	0	8,465	250
METHYL ISOBUTYL KETONE	0	1,679	0
TOLUENE	10,340	11,395	2,367
XYLENE	7,030	10,403	250
Constituent Total	38,675	40,407	5,800

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F-Wastes Reported to NCAR:			
D001D007F003F005	0	0	110,563
F003F005	0	84,650	0
F005	138,862	0	0
	-----	-----	-----
Waste Total	138,862	84,650	110,563

Facility 000260

F-Waste Constituents Reported to TRI:			
ACETONE	6,283	7,716	0
n-BUTYL ALCOHOL	14,557	0	750
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	7,716	250
TOLUENE	10,598	10,588	1,263
XYLENE	0	2,372	250
	-----	-----	-----
Constituent Total	31,438	28,392	2,513

F-Wastes Reported to NCAR:			
D001F005	0	0	36,814
F003F005	0	77,167	0
F005	118,783	0	0
	-----	-----	-----
Waste Total	118,783	77,167	36,814

Facility 000261

F-Waste Constituents Reported to TRI:			
ACETONE	5,713	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	3,955	0	0
TOLUENE	8,332	0	0
XYLENE	5,665	0	0
	-----	-----	-----
Constituent Total	23,665	0	0

F-Wastes Reported to NCAR:			
F005	66,950	0	0
	-----	-----	-----
Waste Total	66,950	0	0

Facility 000262

F-Waste Constituents Reported to TRI:			
ACETONE	3,813	3,101	0
n-BUTYL ALCOHOL	0	0	750
METHYL ETHYL KETONE (MEK)	0	0	1,855
METHANOL	0	3,101	250
METHYL ISOBUTYL KETONE	3,329	1,312	0
TOLUENE	5,209	6,408	2,328
XYLENE	3,782	4,645	250
	-----	-----	-----
Constituent Total	16,133	18,567	5,433

F-Wastes Reported to NCAR:			
D001D007F003F005	0	0	35,476
F003F005	0	31,010	0
F005	36,875	0	0
	-----	-----	-----
Waste Total	36,875	31,010	35,476

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000263			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F005	18,800	21,800	125,200
	-----	-----	-----
Waste Total	18,800	21,800	125,200
Facility 000264			
F-Waste Constituents Reported to TRI:			
CRESOL(S)	0	0	0
	-----	-----	-----
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	0	0	7
F003	51,800	0	0
F003F005	0	9,091	0
F005	0	0	2,919
	-----	-----	-----
Waste Total	51,800	9,091	2,926
Facility 000270			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
TETRACHLOROETHYLENE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	500	0
	-----	-----	-----
Waste Total	0	500	0
Facility 000273			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	85,518	81,760	73,319
F003	0	3,620	3,575
	-----	-----	-----
Waste Total	85,518	85,380	76,894
Facility 000275			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
CHLOROBENZENE	0	0	0
ETHYLBENZENE	0	750	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
METHANOL	59,900	24,000	0
XYLENE	3,315	1,000	0
Constituent Total	63,215	25,750	0
F-Wastes Reported to NCAR:			
D001F003	0	3,000	28,380
D001F003F005	0	0	450
F002	4,486	0	0
F002F003F005	0	0	3,902,160
F003	528,297	163,387	84,660
F005	1,800	0	0
Waste Total	534,583	166,387	4,015,650

Facility 000277

F-Waste Constituents Reported to TRI:			
ACETONE	520	7,560	0
Constituent Total	520	7,560	0
F-Wastes Reported to NCAR:			
F002	1,350	0	0
F003	75,960	69,269	15,937
Waste Total	77,310	69,269	15,937

Facility 000278

F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
METHYLENE CHLORIDE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F002	0	4,215	487
F002	0	12,886	0
Waste Total	0	17,101	487

Facility 000279

F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	15,950	26,400	44,226
F002	11,495	0	0
F005	0	824	0
Waste Total	27,445	27,224	44,226

Facility 000280

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	990	1,590	2,190
CYCLOHEXANE	0	0	0
METHYLENE CHLORIDE	0	0	5,100
Constituent Total	990	1,590	7,290

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F-Wastes Reported to NCAR:			
D001F001	0	0	3,440
D001F001F003	0	18,052	13,762
D001F002F003	0	5,580	2,027
F001	0	240	0
F001F003	0	0	5,404
F002	18,025	4,191	4,645
F002F003F005	0	0	16,473
F003	452	240	430
	-----	-----	-----
Waste Total	18,477	28,303	46,181

Facility 000281

F-Waste Constituents Reported to TRI:			
METHANOL	0	750	755
1,1,1-TRICHLOROETHANE	0	0	0
	-----	-----	-----
Constituent Total	0	750	755
F-Wastes Reported to NCAR:			
*F001	0	0	910
	-----	-----	-----
Waste Total	0	0	910

Facility 000287

F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	2,000	7,820	4,860
1,1,1-TRICHLOROETHANE	0	0	0
	-----	-----	-----
Constituent Total	2,000	7,820	4,860
F-Wastes Reported to NCAR:			
F002	0	50,675	27,690
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Waste Total	0	50,675	27,690

Facility 000289

F-Waste Constituents Reported to TRI:			
ACETONE	14,892	14,800	0
CYCLOHEXANE	53,337	0	0
METHANOL	41,933	0	0
TETRACHLOROETHYLENE	66,350	0	0
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Constituent Total	176,512	14,800	0
F-Wastes Reported to NCAR:			
D001F002	0	0	160
D001F003F005	0	0	44,896
D001F003F005U159	0	0	675
D001F003U002U213	0	0	50
D002F002	0	0	59,200
D022D027D040F002	0	0	240
D035F003F005	0	0	4,020
F002	101,600	70,480	10,419
F002F003F005	0	0	38,745
F003	136,380	102,733	0
	-----	-----	-----
Waste Total	237,980	173,213	158,405

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

----- Lbs Transferred Off-site -----
1988 1989 1990

Constituent/Waste Code

Facility 000298

F-Waste Constituents Reported to TRI:

D001F003F005	0	8,500	3,713
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Waste Total	0	8,500	3,713

Facility 000300

F-Waste Constituents Reported to TRI:

XYLENE	0	0	0
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Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F003	0	26,000	5,450
D001F003F005	0	0	30,800
F003	34,000	0	0
	-----	-----	-----
Waste Total	34,000	26,000	36,250

Facility 000303

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F001	0	0	708
D008F003F005	0	0	709
F001	2,420	2,736	2,260
F003	0	317	0
F005	0	379	0
	-----	-----	-----
Waste Total	2,420	3,432	3,677

Facility 000311

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
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Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F001	0	0	1,028
F001F005	0	937	0
F002	0	670	439
F003	0	380	0
F004	0	252	0
F005	0	740	1,380
	-----	-----	-----
Waste Total	0	2,979	2,847

Facility 000314

F-Waste Constituents Reported to TRI:

CYCLOHEXANE	0	0	250
METHYL ETHYL KETONE (MEK)	0	0	250
TOLUENE	0	3,784	0
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Constituent Total	0	3,784	500

F-Wastes Reported to NCAR:

D001F005	0	6,186	0
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F002	2,424	3,017	250
F002F003	0	0	170
F003F005	0	0	93,296
Waste Total	2,424	9,203	93,716

Facility 000315

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
CYCLOHEXANE	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	6,180	0	220
XYLENE	0	0	0
Constituent Total	6,180	0	220

F-Wastes Reported to NCAR:

D001F003	0	480,080	36,260
D001F003F005	0	211,220	64,620
D001F003F005U077	0	3,920	0
D001F003U077	0	0	79,840
D001F005	0	146,740	2,275
F003	108,425	2,380	18,180
F005	853,845	1,850	1,050
Waste Total	962,270	846,190	202,225

Facility 000317

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	5,932	0	0
TOLUENE	13,842	0	0
XYLENE	0	0	0
Constituent Total	19,774	0	0

F-Wastes Reported to NCAR:

D001D035F003F005	0	0	24,150
F003F005	0	31,710	0
F005	39,550	0	0
Waste Total	39,550	31,710	24,150

Facility 000327

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	80	250	80
TRICHLOROETHYLENE	2,000	2,500	4,100
Constituent Total	2,080	2,750	4,180

F-Wastes Reported to NCAR:

D001F001	0	8,960	7,940
F001	174,532	173,565	94,990
F005	0	750	445
Waste Total	174,532	183,275	103,375

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000328

F-Waste Constituents Reported to TRI:

n-BUTYL ALCOHOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001D002F003F005	0	0	400
D002F003F005	0	0	500
F001	0	900	0
F002	0	30,380	0
F003	1,000	1,550	400
F003F005	0	0	2,000
F005	0	1,400	1,600
Waste Total	1,000	34,230	4,900

Facility 000329

F-Waste Constituents Reported to TRI:

METHANOL	82	81	79
TOLUENE	10,560	32,100	29,100
XYLENE	240	300	0
Constituent Total	10,882	32,481	29,179

F-Wastes Reported to NCAR:

F005	98,500	159,000	162,875
Waste Total	98,500	159,000	162,875

Facility 000330

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001D027D029F003	0	0	4,320
D001F002F003F005	0	350	700
D001F003F005	0	0	14,600
D002F003F005	0	0	500
F003	17,451	49,490	0
F003F005	0	1,330	0
F005	4,290	0	0
Waste Total	21,741	51,170	20,120

Facility 000334

F-Waste Constituents Reported to TRI:

CRESOL(S)	0	0	380
METHANOL	19,765	26,117	61,000
TETRACHLOROETHYLENE	0	0	0
XYLENE	0	44,064	5,205
Constituent Total	19,765	70,181	66,585

F-Wastes Reported to NCAR:

F003	0	55,080	0
F005	0	81,660	36,000

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	0	136,740	36,000

Facility 000335

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003	121,055	0	0
F003F005	0	116,760	0
F005	0	0	167,914
Waste Total	121,055	116,760	167,914

Facility 000336

F-Waste Constituents Reported to TRI:

TOLUENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F001	3,000	3,600	0
F005	0	0	184,980
Waste Total	3,000	3,600	184,980

Facility 000337

F-Waste Constituents Reported to TRI:

FREON 113	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F003F005	0	27,710	27,350
F001	64,879	10,982	1,200
F002	3,314	3,599	5,500
F003	6,108	0	0
Waste Total	74,301	42,291	34,050

Facility 000342

F-Waste Constituents Reported to TRI:

CYCLOHEXANE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F001	0	3,340	0
F002	0	1,920	0
Waste Total	0	5,260	0

Facility 000346

F-Waste Constituents Reported to TRI:

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F005	500	1,040	760
Waste Total	500	1,040	760

Facility 000347

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	2,700	3,000	750
METHYL ETHYL KETONE (MEK)	2,000	8,000	4,450
TOLUENE	0	12,800	5,255
1,1,1-TRICHLOROETHANE	0	0	0
XYLENE	13,000	10,600	7,350
Constituent Total	17,700	34,400	17,805

F-Wastes Reported to NCAR:

D001D035F003	0	0	77,750
D001F003	0	0	2,800
F003	55,890	86,021	0
Waste Total	55,890	86,021	80,550

Facility 000350

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	950	3,311	0
Constituent Total	950	3,311	0

F-Wastes Reported to NCAR:

F001	800	0	0
F003	800	0	0
Waste Total	1,600	0	0

Facility 000353

F-Waste Constituents Reported to TRI:

FREON 113	0	0	0
METHYL ETHYL KETONE (MEK)	385,728	60,128	0
TOLUENE	191,032	404,060	0
Constituent Total	576,760	464,188	0

F-Wastes Reported to NCAR:

F005	0	37,325	36,058
Waste Total	0	37,325	36,058

Facility 000357

F-Waste Constituents Reported to TRI:

FREON 113	7,500	0	0
METHYL ETHYL KETONE (MEK)	117,640	3,657	0
METHANOL	0	238	0
TOLUENE	37,780	37,733	130,353
Constituent Total	162,920	41,628	130,353

F-Wastes Reported to NCAR:

F001	8,525	0	0
F005	288,832	191,785	104,307
Waste Total	297,357	191,785	104,307

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	----- Lbs Transferred Off-site -----		
	1988	1989	1990

Facility 000358			
F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	4,672	1,298	0
METHYL ETHYL KETONE (MEK)	4,672	1,088	0
METHANOL	4,672	6,993	0
TOLUENE	4,672	3,180	0
XYLENE	0	1,554	0
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Constituent Total	18,688	14,113	0
F-Wastes Reported to NCAR:			
F005	52,400	46,900	43,268
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Waste Total	52,400	46,900	43,268
Facility 000360			
F-Waste Constituents Reported to TRI:			
TOLUENE	6,364	358	0
XYLENE	5,162	288	0
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Constituent Total	11,526	646	0
F-Wastes Reported to NCAR:			
F003	12,150	0	0
F003F005	0	900	0
	-----	-----	-----
Waste Total	12,150	900	0
Facility 000361			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	3,229	5,363
METHANOL	0	0	0
TOLUENE	2,888	3,229	5,363
XYLENE	0	0	0
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Constituent Total	2,888	6,458	10,726
F-Wastes Reported to NCAR:			
D001F003F005	0	10,764	17,878
	-----	-----	-----
Waste Total	0	10,764	17,878
Facility 000366			
F-Waste Constituents Reported to TRI:			
ACETONE	1,231	0	0
METHYL ETHYL KETONE (MEK)	925	338	0
METHANOL	0	787	0
TOLUENE	1,094	2,002	0
	-----	-----	-----
Constituent Total	3,250	3,127	0
F-Wastes Reported to NCAR:			
D001F003F005	0	0	25,948
	-----	-----	-----
Waste Total	0	0	25,948
Facility 000372			
F-Waste Constituents Reported to TRI:			
METHANOL	323	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
TOLUENE	15,604	2,970	3,400
Constituent Total	15,927	2,970	3,400
F-Wastes Reported to NCAR:			
D001D008F005	0	0	67,490
D001F005	0	0	88,580
F003	43,724	0	0
F005	107,550	138,322	0
Waste Total	151,274	138,322	156,070

Facility 000373

F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F002	0	0	4,462
D008F001	0	0	1,043
D008F002	0	1,650	0
F002	971	1,834	570
F003	486	917	0
Waste Total	1,457	4,401	6,075

Facility 000376

F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
1,1,1-TRICHLOROETHANE	0	0	1
Constituent Total	0	0	1
F-Wastes Reported to NCAR:			
D001F005	0	2,038	0
F001	11,160	5,550	8,324
F002	10,235	1,129	2,237
Waste Total	21,395	8,717	10,561

Facility 000377

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	20,285	33,719
F005	26,000	0	0
Waste Total	26,000	20,285	33,719

Facility 000379

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	15,315	17,276
F005	22,440	0	0
Waste Total	22,440	15,315	17,276

Facility 000380

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	27,200	32,781
F005	28,600	0	0
Waste Total	28,600	27,200	32,781

Facility 000381

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	26,760	10,808
F005	32,568	0	0
Waste Total	32,568	26,760	10,808

Facility 000382

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	28,427	40,397
F005	29,760	0	0
Waste Total	29,760	28,427	40,397

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000383

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Constituent Total	0	0	0
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F-Wastes Reported to NCAR:

F003	0	57,805	117,502
F005	62,864	0	0

Waste Total	62,864	57,805	117,502
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Facility 000384

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Constituent Total	0	0	0
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F-Wastes Reported to NCAR:

F003	0	0	26,698
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Waste Total	0	0	26,698
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Facility 000385

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Constituent Total	0	0	0
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F-Wastes Reported to NCAR:

F003	0	50,185	66,115
F005	54,808	0	0

Waste Total	54,808	50,185	66,115
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Facility 000386

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Constituent Total	0	0	0
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F-Wastes Reported to NCAR:

F003	0	6,685	0
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F005	1,320	0	0
Waste Total	1,320	6,685	0

Facility 000387

F-Waste Constituents Reported to TRI:			
TETRACHLOROETHYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
F001	16,821	0	0
Waste Total	16,821	0	0

Facility 000388

F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	12,429	9,882	2,637
Constituent Total	12,429	9,882	2,637

F-Wastes Reported to NCAR:			
D001F003	0	0	2,752
D001F005	0	3,720	0
F001F003F005	0	3,520	0
F003	12,667	0	0
F003F005	0	16,000	3,211
F005	100,620	25,640	0
Waste Total	113,287	48,880	5,963

Facility 000394

F-Waste Constituents Reported to TRI:			
F003	19,800	0	0
Waste Total	19,800	0	0

Facility 000397

F-Waste Constituents Reported to TRI:			
ACETONE	11,680	0	0
METHANOL	0	0	0
Constituent Total	11,680	0	0

F-Wastes Reported to NCAR:			
F001	0	1,342	952
F002F003	0	1,282	1,924
F003	43,318	0	2,519
F003F005	0	38,966	24,416
Waste Total	43,318	41,590	29,811

Facility 000398

F-Waste Constituents Reported to TRI:			
ACETONE	3,479	4,122	0
METHYL ETHYL KETONE (MEK)	10,707	9,309	6,989
TOLUENE	4,296	0	0
XYLENE	1,500	0	0
Constituent Total	19,982	13,431	6,989

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

F-Wastes Reported to NCAR:

D001F003F005	0	142,590	74,822
D001F004F005	0	10,638	0
F003	66,674	0	0
F005	151,653	0	0

Waste Total	218,327	153,228	74,822
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Facility 000399

F-Waste Constituents Reported to TRI:

D001F001	0	0	36,000
D001F002	0	0	5,900

Waste Total	0	0	41,900
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Facility 000400

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	12,642	0	0
TOLUENE	9,453	0	0
XYLENE	0	0	0

Constituent Total	22,095	0	0
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F-Wastes Reported to NCAR:

D001D035F003F005	0	0	31,535
F003F005	0	85,386	0
F005	45,150	0	0

Waste Total	45,150	85,386	31,535
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Facility 000404

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Constituent Total	0	0	0
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F-Wastes Reported to NCAR:

F005	539,512	750,000	816,160
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Waste Total	539,512	750,000	816,160
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Facility 000405

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
ETHYLBENZENE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	533	31,306	11,484
XYLENE	2,100	0	0

Constituent Total	2,633	31,306	11,484
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F-Wastes Reported to NCAR:

F003	37,250	27,199	28,945
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F005	0	17,557	12,114
Waste Total	37,250	44,756	41,059

Facility 000406

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	37,000	0
1,1,1-TRICHLOROETHANE	0	0	0
XYLENE	0	0	0
Constituent Total	0	37,000	0

F-Wastes Reported to NCAR:

D001D002F003F005	0	0	3,575
D001F005	0	2,503	0
F003F005	0	37,132	0
F005	38,530	0	36,749
Waste Total	38,530	39,635	40,324

Facility 000407

F-Waste Constituents Reported to TRI:

TRICHLOROETHYLENE	3,250	4,631	0
Constituent Total	3,250	4,631	0

F-Wastes Reported to NCAR:

F001	6,628	12,187	6,468
F002	0	1,218	0
F003	3,390	4,870	5,485
Waste Total	10,018	18,275	11,953

Facility 000410

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F004	6,000	20,000	5,450
Waste Total	6,000	20,000	5,450

Facility 000411

F-Waste Constituents Reported to TRI:

XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F002	45	0	0
Waste Total	45	0	0

Facility 000414

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F003F005	0	0	341,013
F003F005	0	232,127	0
Waste Total	0	232,127	341,013

Facility 000417

F-Waste Constituents Reported to TRI:

ACETONE	368,488	301,975	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	72,864	59,713	0
METHANOL	27,065	21,598	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	218,595	179,138	0
XYLENE	0	0	0
Constituent Total	687,012	562,424	0

F-Wastes Reported to NCAR:

D001F003F005	0	0	1,604,863
F003	266,400	0	0
F003F005	0	1,706,075	0
F005	1,775,850	0	0
Waste Total	2,042,250	1,706,075	1,604,863

Facility 000426

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F003F005	0	0	291,540
F003F005	0	344,824	0
F005	460,224	0	0
Waste Total	460,224	344,824	291,540

Facility 000427

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003	330	0	0
F005	435	0	0
Waste Total	765	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000428

F-Waste Constituents Reported to TRI:			
METHANOL	7,900	5,700	505
TETRACHLOROETHYLENE	0	0	0
Constituent Total	7,900	5,700	505
F-Wastes Reported to NCAR:			
D001F002	0	400	0
D001F005	0	40	0
F001	6,710	0	0
F002	0	1,788	1,000
F003	0	0	400
Waste Total	6,710	2,228	1,400

Facility 000432

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	10,350
Constituent Total	0	0	10,350
F-Wastes Reported to NCAR:			
F001	17,020	18,516	10,783
F002	25,185	0	0
F005	0	1,191	3,172
Waste Total	42,205	19,707	13,955

Facility 000439

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0
METHYLENE CHLORIDE	0	0	0
TOLUENE	0	15,091	0
XYLENE	0	14,592	0
Constituent Total	0	29,683	0
F-Wastes Reported to NCAR:			
F003	66,469	40,500	50,600
F005	0	66,000	60,000
Waste Total	66,469	106,500	110,600

Facility 000441

F-Waste Constituents Reported to TRI:			
ACETONE	9,900	5,900	1,900
TOLUENE	650	1,800	9,200
Constituent Total	10,550	7,700	11,100
F-Wastes Reported to NCAR:			
F003	41,250	990	0
F003F005	0	36,450	36,420
Waste Total	41,250	37,440	36,420

Facility 000442

F-Waste Constituents Reported to TRI:

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
ACETONE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	3,573	2,928	5,422
F003	11,414	5,105	6,287
Waste Total	14,987	8,033	11,709

Facility 000445

F-Waste Constituents Reported to TRI:			
ACETONE	2,592	3,478	5,034
CRESOL(S)	0	0	0
METHYL ETHYL KETONE (MEK)	25,807	1,105	1,091
METHYLENE CHLORIDE	0	0	286
TOLUENE	36,834	24,433	31,683
Constituent Total	65,233	29,016	38,094
F-Wastes Reported to NCAR:			
D001F005K086	0	0	189,489
Waste Total	0	0	189,489

Facility 000447

F-Waste Constituents Reported to TRI:			
TOLUENE	19,800	19,145	13,805
Constituent Total	19,800	19,145	13,805
F-Wastes Reported to NCAR:			
F005	9,262	10,883	10,560
Waste Total	9,262	10,883	10,560

Facility 000451

F-Waste Constituents Reported to TRI:			
ACETONE	0	750	0
METHANOL	0	750	0
Constituent Total	0	1,500	0
F-Wastes Reported to NCAR:			
D001F001F002F003	0	0	29,296
F002	1,370	459	0
F003	4,565	3,211	3,577
F003F005	0	0	1,370
Waste Total	5,935	3,670	34,243

Facility 000452

F-Waste Constituents Reported to TRI:			
CYCLOHEXANE	0	0	0
METHANOL	0	5,410	0
TOLUENE	0	20,704	19,855
Constituent Total	0	26,114	19,855
F-Wastes Reported to NCAR:			
D001F005	0	28,700	28,300

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F005	68,656	0	20,182
Waste Total	68,656	28,700	48,482

Facility 000456

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
TRICHLOROETHYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
F001	12,332	11,871	5,107
Waste Total	12,332	11,871	5,107

Facility 000457

F-Waste Constituents Reported to TRI:			
TOLUENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:			
D001D002F003	0	0	14,098
D001F002	0	0	12,640
Waste Total	0	0	26,738

Facility 000463

F-Waste Constituents Reported to TRI:			
D001F003	0	0	2,950
F002	0	0	2,327
Waste Total	0	0	5,277

Facility 000465

F-Waste Constituents Reported to TRI:			
FREON 113	0	1,650	1,640
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	1,650	1,640

F-Wastes Reported to NCAR:			
F001	7,103	1,084	0
F001F002	0	0	1,640
F001F003	0	2,328	2,328
F002	1,365	12,932	1,720
F002F003	0	816	816
F003	11,565	50,068	22,162
Waste Total	20,033	67,228	28,666

Facility 000470

F-Waste Constituents Reported to TRI:			
D001D008F005	0	0	1,995
D001F003F005	0	650	0
F001	2,600	3,055	4,355
Waste Total	2,600	3,705	6,350

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000472

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
BENZENE	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001D005F003F005	0	0	1,140
D001D007D008F003	0	0	1,000
F002	0	3,700	0
Waste Total	0	3,700	2,140

Facility 000475

F-Waste Constituents Reported to TRI:

D001F001F003	0	0	5,974
D001F001F003F005	0	0	4,800
D004D005F001F006	0	0	10,057
D007D008D035F005	0	0	880
D007D008F003F005	0	0	400
F002	0	2,949	0
F003	0	458	0
F003F005	0	0	3,000
Waste Total	0	3,407	25,111

Facility 000479

F-Waste Constituents Reported to TRI:

FREON 113	2,700	6,000	0
METHYLENE CHLORIDE	0	0	0
1,1,1-TRICHLOROETHANE	40,000	11,000	0
TRICHLOROETHYLENE	29,000	38,000	0
Constituent Total	71,700	55,000	0

F-Wastes Reported to NCAR:

F001	2,720	5,510	0
F002	72,500	50,400	0
F002F003F005	0	2,050	0
Waste Total	75,220	57,960	0

Facility 000481

F-Waste Constituents Reported to TRI:

ACETONE	6,377	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	1,307	0	0
1,1,1-TRICHLOROETHANE	0	0	0
XYLENE	0	0	0
Constituent Total	7,684	0	0

F-Wastes Reported to NCAR:

D001F003	0	0	57,450
F001	4,125	0	0
F002F003F005	0	3,677	900
F003	10,805	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F003F005	0	50,411	32,105
F005	3,575	0	0
Waste Total	18,505	54,088	90,455

Facility 000485

F-Waste Constituents Reported to TRI:

ACETONE	627	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	7,224	0	0
METHANOL	18,424	0	0
TOLUENE	9,482	0	0
XYLENE	0	0	0
Constituent Total	35,757	0	0

F-Wastes Reported to NCAR:

D001D035F003F005	0	0	49,700
F003F005	0	51,800	0
F005	65,800	0	0
Waste Total	65,800	51,800	49,700

Facility 000486

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHANOL	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F001	600	200	400
F002	0	500	0
F003	8,400	0	0
F003F005	0	8,000	8,301
F005	35,000	0	0
Waste Total	44,000	8,700	8,701

Facility 000491

F-Waste Constituents Reported to TRI:

METHYLENE CHLORIDE	18,936	158,860	24,286
Constituent Total	18,936	158,860	24,286

F-Wastes Reported to NCAR:

D001F002	0	0	51,400
D022F002F003F005	0	0	28,300
F002	154,200	54,500	0
F002F003	0	492,400	545,431
Waste Total	154,200	546,900	625,131

Facility 000492

F-Waste Constituents Reported to TRI:

TETRACHLOROETHYLENE	38,388	0	0
Constituent Total	38,388	0	0

F-Wastes Reported to NCAR:

D001F001	0	0	2,500
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F001	38,388	0	5,400
F001F002	0	0	16,700
F002	1,400	0	0
F005	3,496	0	0
Waste Total	43,284	0	24,600

Facility 000493

F-Waste Constituents Reported to TRI:

XYLENE	12,840	9,230	11,165
Constituent Total	12,840	9,230	11,165

F-Wastes Reported to NCAR:

F003	22,950	27,450	18,480
Waste Total	22,950	27,450	18,480

Facility 000496

F-Waste Constituents Reported to TRI:

FREON 113	6,485	5,503	14,190
METHANOL	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	6,485	5,503	14,190

F-Wastes Reported to NCAR:

F001	7,500	6,109	14,191
Waste Total	7,500	6,109	14,191

Facility 000497

F-Waste Constituents Reported to TRI:

ACETONE	2,186	6,068	5,389
METHYL ETHYL KETONE (MEK)	13	28	33
METHANOL	376	1,162	836
TOLUENE	0	4	71
Constituent Total	2,575	7,262	6,329

F-Wastes Reported to NCAR:

F003	11,900	23,348	0
F003F005	0	17,904	0
F005	29,325	0	0
Waste Total	41,225	41,252	0

Facility 000499

F-Waste Constituents Reported to TRI:

ACETONE	0	750	250
n-BUTYL ALCOHOL	0	750	0
ETHYLBENZENE	0	750	250
METHYL ETHYL KETONE (MEK)	0	750	250
METHANOL	0	750	250
METHYL ISOBUTYL KETONE	0	750	250
TOLUENE	0	1,300	1,000
XYLENE	0	1,600	750
Constituent Total	0	7,400	3,000

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

F-Wastes Reported to NCAR:			
F003	0	519,575	574,233
F005	988,797	222,675	197,783
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Waste Total	988,797	742,250	772,016

Facility 000506

F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	3,609	3,926	2,756
1,1,1-TRICHLOROETHANE	0	0	0
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Constituent Total	3,609	3,926	2,756

F-Wastes Reported to NCAR:			
F001	0	0	4,122
F002	13,870	22,500	0
F003F005	0	31,500	23,000
F005	24,000	0	0
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Waste Total	37,870	54,000	27,122

Facility 000507

F-Waste Constituents Reported to TRI:			
F002	1,089	0	0
F003	10,200	8,600	0
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Waste Total	11,289	8,600	0

Facility 000508

F-Waste Constituents Reported to TRI:			
F003	0	0	0
F005	0	0	0
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Waste Total	0	0	0

Facility 000512

F-Waste Constituents Reported to TRI:			
ACETONE	65,700	0	0
n-BUTYL ALCOHOL	10,800	0	0
ETHYLBENZENE	0	0	0
METHYL ETHYL KETONE (MEK)	92,100	0	0
METHANOL	900	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	53,200	0	0
XYLENE	34,800	0	0
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Constituent Total	257,500	0	0

F-Wastes Reported to NCAR:			
F003F005	0	512,671	512,671
F005	322,712	0	0
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Waste Total	322,712	512,671	512,671

Facility 000514

F-Waste Constituents Reported to TRI:			
CRESOL(S)	2,600	4,200	17,350
ETHYLBENZENE	0	1,500	5,205
XYLENE	2,100	3,500	16,955
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	4,700	9,200	39,510
F-Wastes Reported to NCAR:			
F002	1,260	1,215	630
Waste Total	1,260	1,215	630

Facility 000517

F-Waste Constituents Reported to TRI:			
METHANOL	0	19,980	0
1,1,1-TRICHLOROETHANE	21,274	1,815	0
TRICHLOROETHYLENE	8,404	8,780	0
Constituent Total	29,678	30,575	0
F-Wastes Reported to NCAR:			
F001	51,040	1,000	0
F002	0	25,200	0
F003	0	5,200	0
Waste Total	51,040	31,400	0

Facility 000519

F-Waste Constituents Reported to TRI:			
ACETONE	56,000	750	750
METHYLENE CHLORIDE	0	0	0
METHANOL	12,000	750	0
PYRIDINE	7,900	2,350	10
TOLUENE	27,000	750	5
Constituent Total	102,900	4,600	765
F-Wastes Reported to NCAR:			
D001F005	0	13,534	0
F001F002F003F004	0	26,600	0
F003	265,135	60	0
F005	417,973	120	91,466
F005P030P077P098	0	0	2,725
Waste Total	683,108	40,314	94,191

Facility 000522

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	41,145	71,000	83,350
Waste Total	41,145	71,000	83,350

Facility 000524

F-Waste Constituents Reported to TRI:			
ACETONE	15,040	15,400	15,000
METHANOL	1,003,000	1,050,000	22,000
Constituent Total	1,018,040	1,065,400	37,000
F-Wastes Reported to NCAR:			
F005	0	5,632	4,327

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	0	5,632	4,327

Facility 000529

F-Waste Constituents Reported to TRI:

D001F003F005	0	0	1,400
F001F005	0	0	83,100
F003	85,014	0	0
F003F004	0	0	64,520
F003F005	0	106,256	0
Waste Total	85,014	106,256	149,020

Facility 000532

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	637	1,500	0
METHANOL	855	0	0
TOLUENE	2,282	1,500	0
XYLENE	0	0	0
Constituent Total	3,774	3,000	0

F-Wastes Reported to NCAR:

D001D001F005	0	23,513	0
D001F001F005	0	0	15,137
D001F003F005	0	35,488	15,476
D001F005F006	0	0	2,752
F003	22,193	0	0
Waste Total	22,193	59,001	33,365

Facility 000533

F-Waste Constituents Reported to TRI:

METHANOL	0	750	5
Constituent Total	0	750	5

F-Wastes Reported to NCAR:

F003	0	420	0
Waste Total	0	420	0

Facility 000538

F-Waste Constituents Reported to TRI:

METHYLENE CHLORIDE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F002	0	1,200	0
F003	0	2,000	0
F005	0	0	376
Waste Total	0	3,200	376

Facility 000539

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	2,752	5,504
F005	4,800	0	0
Waste Total	4,800	2,752	5,504

Facility 000540

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	31,926	54,510
F005	78,360	0	0
Waste Total	78,360	31,926	54,510

Facility 000541

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	197,946	113,218
F005	166,800	0	0
Waste Total	166,800	197,946	113,218

Facility 000542

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	111,281	80,431
F005	109,200	0	0
Waste Total	109,200	111,281	80,431

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000543			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	306,537	226,748
F005	442,168	0	0
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Waste Total	442,168	306,537	226,748
Facility 000544			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
	-----	-----	-----
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	43,890	70,882
F005	54,000	0	0
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Waste Total	54,000	43,890	70,882
Facility 000545			
F-Waste Constituents Reported to TRI:			
FREON 113	6,600	0	0
METHYLENE CHLORIDE	12,893	11,550	0
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Constituent Total	19,493	11,550	0
F-Wastes Reported to NCAR:			
F002	26,400	3,600	3,600
F002F003F005	0	28,800	35,200
F003	32,400	31,800	0
	-----	-----	-----
Waste Total	58,800	64,200	38,800
Facility 000547			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	350,000	451,760	200,000
	-----	-----	-----
Constituent Total	350,000	451,760	200,000
F-Wastes Reported to NCAR:			
F003	0	451,760	0
F003F005	0	0	303,050
F005	452,360	936	0
	-----	-----	-----
Waste Total	452,360	452,696	303,050

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000548

F-Waste Constituents Reported to TRI:

n-BUTYL ALCOHOL	0	0	0
METHANOL	0	0	0
TETRACHLOROETHYLENE	1,748	0	0
XYLENE	0	0	0
Constituent Total	1,748	0	0

F-Wastes Reported to NCAR:

D001F002F003F005	0	0	2,000
F002	38,750	0	600
F002F003	0	4,400	4,400
F002F003F005	0	0	36,660
Waste Total	38,750	4,400	43,660

Facility 000550

F-Waste Constituents Reported to TRI:

ACETONE	2,520	6,189	0
METHYL ETHYL KETONE (MEK)	1,196	627	0
METHANOL	0	157	0
TOLUENE	2,520	0	0
Constituent Total	6,236	6,973	0

F-Wastes Reported to NCAR:

F003	0	8,565	14,025
F005	10,312	0	0
Waste Total	10,312	8,565	14,025

Facility 000552

F-Waste Constituents Reported to TRI:

ACETONE	0	9,213	0
METHANOL	1,301	233	0
Constituent Total	1,301	9,446	0

F-Wastes Reported to NCAR:

F005	7,923	0	0
Waste Total	7,923	0	0

Facility 000553

F-Waste Constituents Reported to TRI:

TETRACHLOROETHYLENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F001	18,800	16,050	20,475
F003	3,100	0	0
F005	0	200	0
Waste Total	21,900	16,250	20,475

Facility 000557

F-Waste Constituents Reported to TRI:

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	414	1,390
METHANOL	1,450	126	0
TOLUENE	4,000	754	640
Constituent Total	5,450	1,294	2,030
F-Wastes Reported to NCAR:			
F003	21,113	0	9,632
Waste Total	21,113	0	9,632

Facility 000563

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	8,595	23,100	16,640
Constituent Total	8,595	23,100	16,640
F-Wastes Reported to NCAR:			
D007F005	0	54,000	42,657
F005	49,764	62,400	30,972
Waste Total	49,764	116,400	73,629

Facility 000568

F-Waste Constituents Reported to TRI:			
ACETONE	21,934	2,800	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	6,580	0	0
METHANOL	6,142	0	0
TOLUENE	6,580	0	0
XYLENE	0	0	0
Constituent Total	41,236	2,800	0
F-Wastes Reported to NCAR:			
F001	0	0	3,875
F003	0	21,150	0
F005	82,350	0	4,998
Waste Total	82,350	21,150	8,873

Facility 000574

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	0	0
F005	0	0	0
Waste Total	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	----- Lbs Transferred Off-site -----		
	1988	1989	1990

Facility 000575

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TETRACHLOROETHYLENE	0	0	0
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
XYLENE	0	0	0

Constituent Total	0	0	0
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F-Wastes Reported to NCAR:

F001	20,812	21,458	20,636
F003	0	1,308	4,814
F003F005	0	0	7,522

Waste Total	20,812	22,766	32,972
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Facility 000576

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	0	0	32,984
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Constituent Total	0	0	32,984
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F-Wastes Reported to NCAR:

D001F003	0	5,280	1,765
F001	26,548	37,408	32,984
F002	0	0	481

Waste Total	26,548	42,688	35,230
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Facility 000579

F-Waste Constituents Reported to TRI:

n-BUTYL ALCOHOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
XYLENE	0	0	0

Constituent Total	0	0	0
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F-Wastes Reported to NCAR:

F001	0	0	1,000
F002	17,456	12,316	10,392
F003	3,194	24,073	41,416
F005	7,634	0	10,972

Waste Total	28,284	36,389	63,780
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Facility 000580

F-Waste Constituents Reported to TRI:

F003	0	0	1,200
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Waste Total	0	0	1,200
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Facility 000583

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	0	16,397
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	----- Lbs Transferred Off-site -----		
	1988	1989	1990
Constituent Total	0	0	16,397
F-Wastes Reported to NCAR:			
D001F003	0	13,455	19,724
F003	37,440	26,197	16,221
Waste Total	37,440	39,652	35,945

Facility 000586

F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	5,227	3,378	0
Constituent Total	5,227	3,378	0
F-Wastes Reported to NCAR:			
F003F005	0	42,000	39,093
F005	109,416	46,328	77,062
Waste Total	109,416	88,328	116,155

Facility 000590

F-Waste Constituents Reported to TRI:			
FREON 113	0	1,424	8,059
METHYLENE CHLORIDE	0	1,424	0
TETRACHLOROETHYLENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	7,591
Constituent Total	0	2,848	15,650
F-Wastes Reported to NCAR:			
F001	3,350	5,798	8,059
Waste Total	3,350	5,798	8,059

Facility 000599

F-Waste Constituents Reported to TRI:			
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
XYLENE	2,964	0	3,000
Constituent Total	2,964	0	3,000
F-Wastes Reported to NCAR:			
F001	0	10,200	1,401
F003	0	0	10,025
F005	0	0	6,359
Waste Total	0	10,200	17,785

Facility 000601

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	2,252	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
Constituent Total	2,252	0	0
F-Wastes Reported to NCAR:			
F003	4,120	3,887	3,215
F005	4,565	10,229	12,400

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	8,685	14,116	15,615

Facility 000603

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003	0	0	0
Waste Total	0	0	0

Facility 000604

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	74,000	0	0
Constituent Total	74,000	0	0

F-Wastes Reported to NCAR:

F001	70,470	58,971	57,924
Waste Total	70,470	58,971	57,924

Facility 000608

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	1,500	500
Constituent Total	0	1,500	500

F-Wastes Reported to NCAR:

D001D007F003F005	0	0	12,750
D007D008F003F005	0	0	67,020
F003F005	0	0	0
F003F006	0	0	0
F005	118,387	184,144	0
Waste Total	118,387	184,144	79,770

Facility 000610

F-Waste Constituents Reported to TRI:

ACETONE	5,900	11,300	10,500
METHYL ETHYL KETONE (MEK)	15,700	46,000	49,505
METHANOL	0	2,700	1,750
TOLUENE	14,600	47,000	25,803
Constituent Total	36,200	107,000	87,558

F-Wastes Reported to NCAR:

D001F003F005	0	0	300,030
F003	294,206	185,321	0
F003F005	0	0	39,410
F005	0	266,789	0
Waste Total	294,206	452,110	339,440

Facility 000611

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	7,320	10,800	0
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
1,1,1-TRICHLOROETHANE	76,840	12,040	0
Constituent Total	84,160	22,840	0
F-Wastes Reported to NCAR:			
F001	71,170	560	905
F002	0	11,480	8,520
F005	6,000	3,045	0
Waste Total	77,170	15,085	9,425

Facility 000613

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	3,909	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	3,909	0	0
F-Wastes Reported to NCAR:			
D001D035F003F005	0	0	33,600
F003F005	0	41,650	456
F005	24,430	0	0
Waste Total	24,430	41,650	34,056

Facility 000614

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	9,039	8,304	4,129
METHYL ETHYL KETONE (MEK)	0	3,061	9,539
METHANOL	0	1,500	10
TOLUENE	2,280	4,176	3,524
XYLENE	2,382	3,000	0
Constituent Total	13,701	20,041	17,202
F-Wastes Reported to NCAR:			
F005	77,859	80,109	100,800
Waste Total	77,859	80,109	100,800

Facility 000615

F-Waste Constituents Reported to TRI:			
ACETONE	2,168	750	0
n-BUTYL ALCOHOL	1,024	1,500	255
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	954	0
TOLUENE	2,130	3,999	255
XYLENE	0	2,250	255
Constituent Total	5,322	9,453	765
F-Wastes Reported to NCAR:			
D001D035F003F005	0	0	21,886
F003F005	0	21,025	0
F005	44,225	0	0
Waste Total	44,225	21,025	21,886

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000616

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	1,005
TRICHLOROETHYLENE	16,200	0	7,704
Constituent Total	16,200	0	8,709
F-Wastes Reported to NCAR:			
F001	0	0	7,704
F002	16,200	9,575	0
F006	100,055	0	0
Waste Total	116,255	9,575	7,704

Facility 000622

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F005	0	44,202	0
F005	14,640	19,230	22,620
Waste Total	14,640	63,432	22,620

Facility 000623

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	800	0
F003F005	0	0	12,800
Waste Total	0	800	12,800

Facility 000624

F-Waste Constituents Reported to TRI:			
ACETONE	2,323	4,350	0
METHYL ETHYL KETONE (MEK)	7,251	13,131	0
METHYL ISOBUTYL KETONE	2,323	6,526	0
TOLUENE	20,847	41,658	0
XYLENE	3,485	7,005	0
Constituent Total	36,229	72,670	0
F-Wastes Reported to NCAR:			
D001F003F005	0	0	173,394
F001	0	4,000	0
F005	48,255	94,336	0
Waste Total	48,255	98,336	173,394

Facility 000626

F-Waste Constituents Reported to TRI:

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
FREON 113	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F001	0	10,092	1,376
F002	11,912	41,283	11,492
F003	0	0	229
F003F005	0	459	0
F005	198	459	0
Waste Total	12,110	52,293	13,097

Facility 000631

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003	144,111	54,087	111,500
Waste Total	144,111	54,087	111,500

Facility 000632

F-Waste Constituents Reported to TRI:

ACETONE	7,155	0	0
Constituent Total	7,155	0	0

F-Wastes Reported to NCAR:

F003	35,285	16,246	0
Waste Total	35,285	16,246	0

Facility 000634

F-Waste Constituents Reported to TRI:

ACETONE	1,340	3,474	1,489
n-BUTYL ALCOHOL	1,673	3,744	2,395
METHYL ETHYL KETONE (MEK)	1,231	3,914	1,786
METHANOL	3,362	9,230	3,468
METHYL ISOBUTYL KETONE	8,830	29,100	18,655
TOLUENE	11,060	29,331	19,206
XYLENE	3,360	6,537	4,697
Constituent Total	30,856	85,330	51,696

F-Wastes Reported to NCAR:

F001	750	0	0
F003	3,150	167,482	43,196
F003F005	0	359,065	162,266
F005	139,727	0	0
Waste Total	143,627	526,547	205,462

Facility 000637

F-Waste Constituents Reported to TRI:

TRICHLOROETHYLENE	0	0	0
Constituent Total	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

F-Wastes Reported to NCAR:

F001	4,123	4,128	9,174
Waste Total	4,123	4,128	9,174

Facility 000638

F-Waste Constituents Reported to TRI:

METHYLENE CHLORIDE	20,300	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	20,300	0	0

F-Wastes Reported to NCAR:

F001	42,154	29,850	17,320
F002	340	0	0
F002F004	0	312	1,176
F003F005	0	9,080	6,479
Waste Total	42,494	39,242	24,975

Facility *000639

F-Waste Constituents Reported to TRI:

METHYLENE CHLORIDE	0	0	0
TOLUENE	6,140	10,698	10,600
1,1,1-TRICHLOROETHANE	0	0	30
Constituent Total	6,140	10,698	10,630

F-Wastes Reported to NCAR:

D001D002F001	0	3,300	0
D001D006D008F002	0	22,694	0
D001F002F005	0	0	25,540
D005D006D008F001	0	0	540
F001	19,250	19,449	9,686
F005	19,113	0	0
Waste Total	38,363	45,443	35,766

Facility 000640

F-Waste Constituents Reported to TRI:

ACETONE	0	100	600
BENZENE	0	0	0
METHANOL	0	0	0
TOLUENE	0	100	660
Constituent Total	0	200	1,260

F-Wastes Reported to NCAR:

D001F005	0	0	138,900
F003F005	0	1,600	6,600
F005	0	22,400	0
Waste Total	0	24,000	145,500

Facility 000643

F-Waste Constituents Reported to TRI:

FREON 113	10,429	7,637	6,694
TETRACHLOROETHYLENE	4,980	7,515	4,141
1,1,1-TRICHLOROETHANE	7,415	10,035	10,199

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	22,824	25,187	21,034
F-Wastes Reported to NCAR:			
F001	1,600	11,950	18,334
F002	19,790	10,496	3,640
F003	2,790	9,803	6,746
F005	0	1,600	1,505
Waste Total	24,180	33,849	30,225

Facility 000644

F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	8,000	0	4,620
XYLENE	6,520	0	0
Constituent Total	14,520	0	4,620
F-Wastes Reported to NCAR:			
F003F005	0	49,700	92,400
F005	46,569	0	0
Waste Total	46,569	49,700	92,400

Facility 000647

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	68,923	101,469	79,826
F003F005	0	3,691	27,619
Waste Total	68,923	105,160	107,445

Facility 000648

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	6,479	2,860	7,745
METHANOL	0	7,328	1,949
TOLUENE	2,905	3,604	6,296
Constituent Total	9,384	13,792	15,990
F-Wastes Reported to NCAR:			
F003F005	0	61,950	72,450
F005	54,100	0	0
Waste Total	54,100	61,950	72,450

Facility 000649

F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	5,454	15,430	2,741
METHANOL	1,432	334	188
Constituent Total	6,886	15,764	2,929

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F-Wastes Reported to NCAR:			
D001F002F003F005	0	0	456
F002	5,464	15,430	2,741
	-----	-----	-----
Waste Total	5,464	15,430	3,197

Facility 000650

F-Waste Constituents Reported to TRI:

ACETONE	962	2,064	3,984
TOLUENE	1,846	2,540	3,710
	-----	-----	-----
Constituent Total	2,808	4,604	7,694

F-Wastes Reported to NCAR:

F003	0	0	6,497
	-----	-----	-----
Waste Total	0	0	6,497

Facility 000651

F-Waste Constituents Reported to TRI:

METHYLENE CHLORIDE	2,657	0	0
TOLUENE	16,920	3,750	0
	-----	-----	-----
Constituent Total	19,577	3,750	0

F-Wastes Reported to NCAR:

D001F003	0	733	0
D001F003F005	0	367	0
D001F005	0	367	0
F001	12,750	0	0
F002	8,855	0	2,200
F002F003	0	550	0
F003	0	0	367
F003F005	0	1,467	2,434
F005	12,825	64,065	12,031
	-----	-----	-----
Waste Total	34,430	67,549	17,032

Facility 000660

F-Waste Constituents Reported to TRI:

ACETONE	6,949	1,478	0
n-BUTYL ALCOHOL	0	14,473	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	70	0
TOLUENE	34,423	22,828	0
1,1,1-TRICHLOROETHANE	7,805	4,556	0
XYLENE	0	2,963	0
	-----	-----	-----
Constituent Total	49,177	46,368	0

F-Wastes Reported to NCAR:

D001D035F003F005	0	0	285,704
D001F003F005	0	235,802	167,752
D006D008F003F005	0	39,496	0
F001	0	42,467	89,698
F003	0	16,300	0
F003F005	0	445,593	287,732
F005	622,882	0	0
	-----	-----	-----
Waste Total	622,882	779,658	830,886

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000668			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	4,025	0	0
Constituent Total	4,025	0	0
F-Wastes Reported to NCAR:			
F001	11,297	8,360	0
F005	0	1,131	0
Waste Total	11,297	9,491	0
Facility 000670			
F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	62,370	2,250	250
1,1,1-TRICHLOROETHANE	48,510	0	250
Constituent Total	110,880	2,250	500
F-Wastes Reported to NCAR:			
F002	41,580	44,000	0
F005	0	8,865	0
Waste Total	41,580	52,865	0
Facility 000672			
F-Waste Constituents Reported to TRI:			
ACETONE	0	50,906	0
n-BUTYL ALCOHOL	0	0	0
METHANOL	30,000	42,549	0
TOLUENE	6,391	100	0
Constituent Total	36,391	93,555	0
F-Wastes Reported to NCAR:			
F002	6,050	0	0
F003	0	62,871	0
F003F005	0	0	35,762
F005	55,250	0	0
Waste Total	61,300	62,871	35,762
Facility 000674			
F-Waste Constituents Reported to TRI:			
XYLENE	36,135	19,609	14,906
Constituent Total	36,135	19,609	14,906
F-Wastes Reported to NCAR:			
D001F003	0	0	14,906
F001	1,200	0	0
F003	9,600	19,358	0
F005	9,200	0	0
Waste Total	20,000	19,358	14,906
Facility 000675			
F-Waste Constituents Reported to TRI:			
ACETONE	5,404	0	0
FREON 113	0	7,057	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
METHYLENE CHLORIDE	0	2,610	0
1,1,1-TRICHLOROETHANE	0	4,689	0
Constituent Total	5,404	14,356	0
F-Wastes Reported to NCAR:			
D001F003F005	0	33,522	0
F001	0	0	0
F002	0	14,904	0
F003	0	1,140	0
F005	27,720	0	0
Waste Total	27,720	49,566	0
Facility 000682			
F-Waste Constituents Reported to TRI:			
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	37,476	48,852	0
Constituent Total	37,476	48,852	0
F-Wastes Reported to NCAR:			
D001F003	0	0	1,376
F001	153,777	127,460	63,301
F002	0	31,801	0
F003	0	3,300	0
Waste Total	153,777	162,561	64,677
Facility 000683			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	1,560	3,120
Waste Total	0	1,560	3,120
Facility 000684			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	12,320	0	0
Waste Total	12,320	0	0
Facility 000686			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	2,400	21,700
Constituent Total	0	2,400	21,700
F-Wastes Reported to NCAR:			
F001	23,791	20,740	18,341
Waste Total	23,791	20,740	18,341

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000694

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F003F005	0	0	122,036
F003	126,778	0	0
F003F005	0	142,793	0
Waste Total	126,778	142,793	122,036

Facility 000697

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
TRICHLOROETHYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F001	35,100	32,538	34,657
F003F005	0	800	0
F005	1,700	0	0
Waste Total	36,800	33,338	34,657

Facility 000700

F-Waste Constituents Reported to TRI:

ETHYLENE GLYCOL MONOETHYL ETHER	8,900	0	0
FREON 113	14,000	24,000	0
TETRACHLOROETHYLENE	81,000	29,800	0
1,1,1-TRICHLOROETHANE	100	0	0
Constituent Total	104,000	53,800	0

F-Wastes Reported to NCAR:

F001	84,646	160	1,120
F002	98,374	64,501	88,224
F003	0	1,860	1,260
F005	0	3,720	60
Waste Total	183,020	70,241	90,664

Facility 000704

F-Waste Constituents Reported to TRI:

METHANOL	106,280	0	0
TOLUENE	868,923	807,454	305,100
Constituent Total	975,203	807,454	305,100

F-Wastes Reported to NCAR:

F005	891,760	833,880	385,430
Waste Total	891,760	833,880	385,430

Facility 000707

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	4,972	0	0
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	4,972	0	0
F-Wastes Reported to NCAR:			
F003F005	0	17,960	0
F005	27,475	0	0
Waste Total	27,475	17,960	0

Facility 000710

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F005	917	0	0
Waste Total	917	0	0

Facility 000712

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	32,000	44,000	0
Constituent Total	32,000	44,000	0
F-Wastes Reported to NCAR:			
F001	45,628	52,137	63,422
Waste Total	45,628	52,137	63,422

Facility 000713

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHYLENE CHLORIDE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	654	0	0
Waste Total	654	0	0

Facility 000717

F-Waste Constituents Reported to TRI:			
METHANOL	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	21,945	20,691
F005	12,705	0	0
Waste Total	12,705	21,945	20,691

Facility 000721

F-Waste Constituents Reported to TRI:

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	21,945	21,054
F005	20,405	0	0
Waste Total	20,405	21,945	21,054

Facility 000722

F-Waste Constituents Reported to TRI:			
ACETONE	12,570	6,589	0
TOLUENE	12,570	6,589	0
Constituent Total	25,140	13,178	0
F-Wastes Reported to NCAR:			
F002	0	0	495
F003	47,083	26,985	12,052
Waste Total	47,083	26,985	12,547

Facility 000725

F-Waste Constituents Reported to TRI:			
CRESOL(S)	0	0	5
METHYLENE CHLORIDE	0	0	5
TETRACHLOROETHYLENE	0	0	5
1,1,1-TRICHLOROETHANE	0	0	5
Constituent Total	0	0	20
F-Wastes Reported to NCAR:			
F001	186,000	0	0
Waste Total	186,000	0	0

Facility 000730

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	1,071
n-BUTYL ALCOHOL	400	6,482	7,489
METHYL ETHYL KETONE (MEK)	80,000	30,197	70,786
METHYLENE CHLORIDE	22,500	3,412	0
METHANOL	400	5,413	16,161
TOLUENE	40,000	23,210	175,259
TRICHLOROETHYLENE	2,000	0	0
Constituent Total	145,300	68,714	270,766
F-Wastes Reported to NCAR:			
D001D005F001F003	0	0	305
D001D010F003F005	0	0	3,100
D001F001F003F005	0	0	25,275
D001F005	0	0	0
D006F001F003F005	0	0	181,815
F001	44,170	10,850	0
F001F003F005	0	0	97,820
F005	158,983	189,660	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	203,153	200,510	308,315

Facility 000733

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	54,800	0
F005	24,000	0	36,000
Waste Total	24,000	54,800	36,000

Facility 000734

F-Waste Constituents Reported to TRI:

FREON 113	0	8,422	9,652
METHYLENE CHLORIDE	5,600	8,423	9,652
Constituent Total	5,600	16,845	19,304

F-Wastes Reported to NCAR:

F001	10,250	16,691	7,912
F002	1,600	0	2,140
F003	1,600	0	0
Waste Total	13,450	16,691	10,052

Facility 000735

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	9,203	5,518	12,800
TOLUENE	14,787	3,652	9,020
TRICHLOROETHYLENE	0	0	0
Constituent Total	23,990	9,170	21,820

F-Wastes Reported to NCAR:

D001D007D008F005	0	6,720	0
D001F005	0	0	7,350
F001	11,205	8,600	5,746
F002	600	300	1,768
F003F005	0	67,400	57,463
F005	72,100	0	0
Waste Total	83,905	83,020	72,327

Facility 000737

F-Waste Constituents Reported to TRI:

TETRACHLOROETHYLENE	750	750	0
Constituent Total	750	750	0

F-Wastes Reported to NCAR:

F001	800	0	1,485
F003	0	3,200	4,268
F005	2,100	2,400	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	2,900	5,600	5,753
Facility 000740			
F-Waste Constituents Reported to TRI:			
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	23,595	28,435	0
F003F005	0	34,760	0
F005	18,920	0	0
Waste Total	42,515	63,195	0
Facility 000743			
F-Waste Constituents Reported to TRI:			
METHANOL	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	0	651	1,317
F003	0	3,204	2,852
Waste Total	0	3,855	4,169
Facility 000744			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	70,000	0	0
METHANOL	15,000	0	0
Constituent Total	85,000	0	0
F-Wastes Reported to NCAR:			
F003F005	0	64,911	43,679
F005	70,397	0	0
Waste Total	70,397	64,911	43,679
Facility 000750			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F003	0	9,160	0
D001F003F005	0	80	0
F002	2,293	126	220
F003	4,617	80	9,590
Waste Total	6,910	9,446	9,810
Facility 000751			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	68,200	29,600	75,494
METHYLENE CHLORIDE	6,040	21,700	11,211

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
TOLUENE	14,679	7,410	18,874
Constituent Total	88,919	58,710	105,579
F-Wastes Reported to NCAR:			
F002	5,995	19,470	13,189
F003F005	0	0	73,100
F005	101,248	82,567	147,576
Waste Total	107,243	102,037	233,865

Facility 000767

F-Waste Constituents Reported to TRI:			
METHYLENE CHLORIDE	3,621	1,799	0
Constituent Total	3,621	1,799	0
F-Wastes Reported to NCAR:			
F002	3,597	3,175	0
F005	0	1,376	0
Waste Total	3,597	4,551	0

Facility 000768

F-Waste Constituents Reported to TRI:			
D001D008F005	0	0	1,550
Waste Total	0	0	1,550

Facility 000769

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	23,100	0	26,092
Constituent Total	23,100	0	26,092
F-Wastes Reported to NCAR:			
F001	3,600	0	0
F002	19,500	21,533	26,092
F003	0	0	390
Waste Total	23,100	21,533	26,482

Facility 000771

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
CYCLOHEXANE	0	0	0
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
TRICHLOROETHYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	0	0	9,010
Waste Total	0	0	9,010

Facility 000774

F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	969	676	1,224

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
METHYL ETHYL KETONE (MEK)	1,130	862	1,560
METHANOL	2,504	1,315	2,380
TOLUENE	2,422	1,663	3,010
XYLENE	735	484	876
Constituent Total	7,760	5,000	9,050

F-Wastes Reported to NCAR:

D001F003F005	0	22,000	50,055
F003F005	0	18,098	32,751
F005	26,652	0	0

Waste Total 26,652 40,098 82,806

Facility 000775

F-Waste Constituents Reported to TRI:

ACETONE	18,456	42,205	10,807
Constituent Total	18,456	42,205	10,807

F-Wastes Reported to NCAR:

F001	0	0	3,610
F003	12,989	33,748	10,807
F005	39,062	12,536	40,690

Waste Total 52,051 46,284 55,107

Facility 000778

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F002	39,920	0	0
Waste Total	39,920	0	0

Facility 000794

F-Waste Constituents Reported to TRI:

ACETONE	3,320	3,601	1,657
n-BUTYL ALCOHOL	1,930	1,800	1,059
METHYL ETHYL KETONE (MEK)	1,366	1,351	1,081
METHANOL	2,948	2,851	1,594
TOLUENE	8,310	8,103	4,767
XYLENE	2,831	2,426	1,427
Constituent Total	20,705	20,132	11,585

F-Wastes Reported to NCAR:

F003F005	0	195,073	102,132
F005	121,408	0	0

Waste Total 121,408 195,073 102,132

Facility 000798

F-Waste Constituents Reported to TRI:

n-BUTYL ALCOHOL	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F003F005	0	0	11,385
F003F005	0	7,590	0
F005	21,945	0	0
Waste Total	21,945	7,590	11,385

Facility 000801

F-Waste Constituents Reported to TRI:			
ACETONE	1,688	0	0
Constituent Total	1,688	0	0
F-Wastes Reported to NCAR:			
D001F003	0	0	11,070
F003	16,110	12,300	0
Waste Total	16,110	12,300	11,070

Facility 000808

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F003	0	0	12,300
F003	3,280	17,220	0
Waste Total	3,280	17,220	12,300

Facility 000809

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHANOL	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	0	0
Waste Total	0	0	0

Facility 000812

F-Waste Constituents Reported to TRI:			
METHANOL	0	6,539	0
1,1,1-TRICHLOROETHANE	592	11,490	0
Constituent Total	592	18,029	0
F-Wastes Reported to NCAR:			
F001	300	9,676	14,098
F002	1,100	0	0
F002F003	0	610	0
F003	4,458	6,538	4,368
F005	0	1,113	371

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	5,858	17,937	18,837

Facility 000816

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	0	2,772
TOLUENE	0	71,136	17,280
1,1,1-TRICHLOROETHANE	0	0	4,299
Constituent Total	0	71,136	24,351

F-Wastes Reported to NCAR:

F001	0	0	6,000
F002	0	0	12,600
F005	0	0	2,800
Waste Total	0	0	21,400

Facility 000823

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	20,208	39,295
TOLUENE	0	0	250
1,1,1-TRICHLOROETHANE	0	6,218	26,373
Constituent Total	0	26,426	65,918

F-Wastes Reported to NCAR:

F003	23,240	0	0
F003F005	0	40,584	62,812
Waste Total	23,240	40,584	62,812

Facility 000829

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001D035F003F005	0	0	22,692
F003F005	0	22,575	0
F005	20,540	0	0
Waste Total	20,540	22,575	22,692

Facility 000834

F-Waste Constituents Reported to TRI:

F003	0	240	0
Waste Total	0	240	0

Facility 000836

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	----- Lbs Transferred Off-site -----		
	1988	1989	1990
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F005	0	0	23,600
Waste Total	0	0	23,600
Facility 000841			
F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	1,020	0	0
ETHYLBENZENE	385	0	0
METHANOL	24	0	0
2-NITROPROPANE	225	0	0
TOLUENE	5,493	0	0
XYLENE	0	0	0
Constituent Total	7,147	0	0
F-Wastes Reported to NCAR:			
F005	3,935	14,508	1,300
Waste Total	3,935	14,508	1,300
Facility 000842			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	5,400	1,439
Waste Total	0	5,400	1,439
Facility 000844			
F-Waste Constituents Reported to TRI:			
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D035F003F005	0	0	5,310
F003F005	0	87,360	0
F005	26,843	0	0
Waste Total	26,843	87,360	5,310
Facility 000845			
F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
TETRACHLOROETHYLENE	105,247	0	0
Constituent Total	105,247	0	0
F-Wastes Reported to NCAR:			
F001	131,428	126,445	42,918
Waste Total	131,428	126,445	42,918

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000847

F-Waste Constituents Reported to TRI:			
ACETONE	79,200	36,900	29,700
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	79,200	36,900	29,700
F-Wastes Reported to NCAR:			
F003	0	36,900	29,700
Waste Total	0	36,900	29,700

Facility 000850

F-Waste Constituents Reported to TRI:			
METHANOL	412	316	0
Constituent Total	412	316	0
F-Wastes Reported to NCAR:			
F003F005	0	7,035	8,267
F005	3,680	0	0
Waste Total	3,680	7,035	8,267

Facility 000852

F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001D035F003F005	0	0	31,517
D001F003F005	0	23,340	0
F005	6,947	0	0
Waste Total	6,947	23,340	31,517

Facility 000854

F-Waste Constituents Reported to TRI:			
ACETONE	9,265	8,336	6,160
n-BUTYL ALCOHOL	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	9,265	8,336	6,160
F-Wastes Reported to NCAR:			
F003	1,050	15,378	6,160
Waste Total	1,050	15,378	6,160

Facility 000856

F-Waste Constituents Reported to TRI:			
ACETONE	0	7,800	60,000
TOLUENE	1,300	120,000	89,000
Constituent Total	1,300	127,800	149,000

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

F-Wastes Reported to NCAR:			
D001F003F005	0	174,812	0
F003	252,016	0	24,043
F003F005	0	0	193,147
Waste Total	252,016	174,812	217,190
Facility 000857			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	7,543	11,120	15,423
TOLUENE	7,985	11,120	3,027
Constituent Total	15,528	22,240	18,450
F-Wastes Reported to NCAR:			
F003	0	10,700	0
F003F005	0	30,366	36,933
F005	21,190	0	0
Waste Total	21,190	41,066	36,933
Facility 000858			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	86,000	12,468	0
Waste Total	86,000	12,468	0
Facility 000859			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHYLENE CHLORIDE	0	0	0
TOLUENE	0	0	0
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F003	0	0	145,536
D001F005	0	0	21,624
D008F001	0	0	35,046
F001	182,268	111,996	0
F002	0	10,368	0
F003	224,774	149,974	0
F005	43,228	33,532	0
Waste Total	450,270	305,870	202,206
Facility 000860			
F-Waste Constituents Reported to TRI:			
TRICHLOROETHYLENE	18,871	0	0
Constituent Total	18,871	0	0
F-Wastes Reported to NCAR:			
F002	23,411	10,513	5,740

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	23,411	10,513	5,740

Facility 000867

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
METHYLENE CHLORIDE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003	0	0	1,394
F003F005	0	0	3,100
Waste Total	0	0	4,494

Facility 000877

F-Waste Constituents Reported to TRI:

METHANOL	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F002F003F005	0	0	2,508
D007D035F005	0	0	856
D022F001F002	0	0	424
F001	0	61,110	10,668
F002	0	0	813
F005	0	860	0
Waste Total	0	61,970	15,269

Facility 000884

F-Waste Constituents Reported to TRI:

METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F003F005	0	13,838	11,594
F005	30,030	0	0
Waste Total	30,030	13,838	11,594

Facility 000887

F-Waste Constituents Reported to TRI:

METHYLENE CHLORIDE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F001	2,442	0	11,859
F001F002F003	0	3,670	0
F002	2,416	0	0
Waste Total	4,858	3,670	11,859

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000888

F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	1,000

Constituent Total	0	0	1,000
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F-Wastes Reported to NCAR:			
F001	500	0	1,000

Waste Total	500	0	1,000
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Facility 000892

F-Waste Constituents Reported to TRI:			
ACETONE	45,000	0	0

METHYLENE CHLORIDE	49,000	0	0
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Constituent Total	94,000	0	0
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F-Wastes Reported to NCAR:			
F002	26,395	28,236	20,150

F003	70,352	45,019	46,351
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Waste Total	96,747	73,255	66,501
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Facility 000901

F-Waste Constituents Reported to TRI:			
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ACETONE	0	0	0
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n-BUTYL ALCOHOL	0	0	0
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METHYL ETHYL KETONE (MEK)	0	0	0
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METHANOL	0	0	0
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METHYL ISOBUTYL KETONE	0	0	0
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TOLUENE	0	0	0
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XYLENE	0	0	0
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Constituent Total	0	0	0
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F-Wastes Reported to NCAR:			
D001F003F005	0	0	33,100

F003F005	0	4,090	0
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F005	15,300	0	0
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Waste Total	15,300	4,090	33,100
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Facility 000903

F-Waste Constituents Reported to TRI:			
XYLENE	0	0	0

Constituent Total	0	0	0
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F-Wastes Reported to NCAR:			
F003	8,470	10,550	18,700

F005	1,155	0	0
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Waste Total	9,625	10,550	18,700
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Facility 000911

F-Waste Constituents Reported to TRI:			
ETHYLBENZENE	0	0	0

TOLUENE	0	0	0
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XYLENE	0	0	0
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Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	0	0	6,010
Waste Total	0	0	6,010
Facility 000914			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	59,622	0
F005	36,135	0	66,997
Waste Total	36,135	59,622	66,997
Facility 000917			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	268,111	187,992
F005	128,720	0	0
Waste Total	128,720	268,111	187,992
Facility 000921			
F-Waste Constituents Reported to TRI:			
D001F003	0	0	324,543
D005F003	0	0	2,500
F003	0	411,836	1,432,236
Waste Total	0	411,836	1,759,279
Facility 000939			
F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	750
METHYL ETHYL KETONE (MEK)	0	0	750
TOLUENE	0	0	750
XYLENE	0	0	1,500
Constituent Total	0	0	3,750
F-Wastes Reported to NCAR:			
F002	0	0	500

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F003	0	0	17,585
F005	0	139,920	176,485
Waste Total	0	139,920	194,570

Facility 000955

F-Waste Constituents Reported to TRI:

METHYL ISOBUTYL KETONE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

F005	0	90,000	164,520
Waste Total	0	90,000	164,520

Facility 000957

F-Waste Constituents Reported to TRI:

1,1,1-TRICHLOROETHANE	0	13,537	10,192
Constituent Total	0	13,537	10,192

F-Wastes Reported to NCAR:

D001F003F005	0	0	2,833
F001	0	14,541	12,619
F002	0	601	0
F005	0	2,428	0
Waste Total	0	17,570	15,452

Facility 000970

F-Waste Constituents Reported to TRI:

XYLENE	0	1,500	0
Constituent Total	0	1,500	0

F-Wastes Reported to NCAR:

D001F003F005	0	4,800	0
F001F002F003F005	0	0	3,650
F003F005	0	10,500	7,900
Waste Total	0	15,300	11,550

Facility 000984

F-Waste Constituents Reported to TRI:

ACETONE	0	0	0
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
METHYL ISOBUTYL KETONE	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0

F-Wastes Reported to NCAR:

D001F003F005	0	0	9,600
Waste Total	0	0	9,600

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 000987			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TETRACHLOROETHYLENE	0	0	0
TOLUENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	7,256	12,093
F003	0	103,583	105,576
Waste Total	0	110,839	117,669
Facility 000990			
F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	3,527	950
F002	0	2,520	7,250
Waste Total	0	6,047	8,200
Facility 001008			
F-Waste Constituents Reported to TRI:			
TOLUENE	0	18,758	0
XYLENE	0	0	11,727
Constituent Total	0	18,758	11,727
F-Wastes Reported to NCAR:			
D001F003F005	0	46,457	81,000
F005	0	0	28,500
Waste Total	0	46,457	109,500
Facility 001010			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	18,750	3,350
TOLUENE	0	0	0
Constituent Total	0	18,750	3,350
F-Wastes Reported to NCAR:			
D001D007F005	0	9,500	27,000
D001F005	0	3,750	0
D007F005	0	14,500	22,100
F002	0	1,000	1,250
Waste Total	0	28,750	50,350
Facility 001024			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D035F003F005	0	0	110,625
F003F005	0	168,990	0
Waste Total	0	168,990	110,625

Facility 001033

F-Waste Constituents Reported to TRI:			
TETRACHLOROETHYLENE	0	1,040	7,920
Constituent Total	0	1,040	7,920
F-Wastes Reported to NCAR:			
F001	0	6,930	7,920
Waste Total	0	6,930	7,920

Facility 001040

F-Waste Constituents Reported to TRI:			
F003	0	0	37,947
Waste Total	0	0	37,947

Facility 001043

F-Waste Constituents Reported to TRI:			
TETRACHLOROETHYLENE	0	40,256	55,740
Constituent Total	0	40,256	55,740
F-Wastes Reported to NCAR:			
F001	0	41,999	55,740
Waste Total	0	41,999	55,740

Facility 001046

F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
METHANOL	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	23,590	39,200
Waste Total	0	23,590	39,200

Facility 001050

F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	26	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
F002	0	1,592	0
F003	0	25,307	20,051
F003F005	0	0	18,619
F005	0	338	0
Waste Total	0	27,263	38,670
Facility 001059			
F-Waste Constituents Reported to TRI:			
F001	1,435	1,152	1,363
F003	0	83	0
Waste Total	1,435	1,235	1,363
Facility 001073			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	68,046	72,567	26,080
Waste Total	68,046	72,567	26,080
Facility 001074			
F-Waste Constituents Reported to TRI:			
D035F001F003F005	0	0	15,750
F001	0	0	1,260
F001F002	0	0	15,080
Waste Total	0	0	32,090
Facility 001094			
F-Waste Constituents Reported to TRI:			
F001	0	0	400
F002	0	0	400
F005	0	0	6,400
Waste Total	0	0	7,200
Facility 001095			
F-Waste Constituents Reported to TRI:			
D007F005	0	0	3,303
Waste Total	0	0	3,303
Facility 001107			
F-Waste Constituents Reported to TRI:			
F001	0	0	2,289
F003	0	0	1,977
F005	0	0	2,550
Waste Total	0	0	6,816
Facility 001127			
F-Waste Constituents Reported to TRI:			
FREON 113	0	0	0

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	0	0	53,654
Waste Total	0	0	53,654
Facility 001129			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F002	0	0	9,600
Waste Total	0	0	9,600
Facility 001132			
F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
TOLUENE	0	0	0
XYLENE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
D001F003	0	0	11,550
D001F005	0	0	82,756
F002	0	0	593
Waste Total	0	0	94,899
Facility 001134			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	0	11,585
TOLUENE	0	0	11,786
Constituent Total	0	0	23,371
F-Wastes Reported to NCAR:			
D001F003	0	0	6,900
F003	0	0	38,300
F003F005	0	0	3,200
Waste Total	0	0	48,400
Facility 001142			
F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	11,700
METHYL ETHYL KETONE (MEK)	0	0	6,900
Constituent Total	0	0	18,600
F-Wastes Reported to NCAR:			
F003F005	0	0	821,770
Waste Total	0	0	821,770

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990

Facility 001154			
F-Waste Constituents Reported to TRI:			
METHYL ETHYL KETONE (MEK)	0	0	0
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Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	0	388,519
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Waste Total	0	0	388,519

Facility 001156			
F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
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Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	0	2,107
F005	0	0	15,170
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Waste Total	0	0	17,277

Facility 001162			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	7,250
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Constituent Total	0	0	7,250
F-Wastes Reported to NCAR:			
F001	0	0	5,294
F003	0	0	200
	-----	-----	-----
Waste Total	0	0	5,494

Facility 001165			
F-Waste Constituents Reported to TRI:			
METHANOL	0	0	0
	-----	-----	-----
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003F005	0	0	21,054
	-----	-----	-----
Waste Total	0	0	21,054

Facility 001174			
F-Waste Constituents Reported to TRI:			
ETHYLENE GLYCOL MONOETHYL ETHER	0	0	750
METHYL ETHYL KETONE (MEK)	0	0	750
TOLUENE	0	0	750
1,1,1-TRICHLOROETHANE	0	0	0
	-----	-----	-----
Constituent Total	0	0	2,250
F-Wastes Reported to NCAR:			
F001	0	0	15,497
F003	0	0	3,017
	-----	-----	-----

Comparison of F-Wastes Reported to NCAR and
F-Waste Constituents Reported to TRI: 1988 to 1990

Constituent/Waste Code	---- Lbs Transferred Off-site ----		
	1988	1989	1990
Waste Total	0	0	18,514
Facility 001177			
F-Waste Constituents Reported to TRI:			
1,1,1-TRICHLOROETHANE	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F001	0	0	1,716
F003	0	0	788
F005	0	0	1,718
Waste Total	0	0	4,222
Facility 001190			
F-Waste Constituents Reported to TRI:			
METHANOL	0	0	250
TOLUENE	0	0	250
Constituent Total	0	0	500
F-Wastes Reported to NCAR:			
F005	0	0	61,414
Waste Total	0	0	61,414
Facility 001193			
F-Waste Constituents Reported to TRI:			
ACETONE	0	0	0
METHYL ETHYL KETONE (MEK)	0	0	0
Constituent Total	0	0	0
F-Wastes Reported to NCAR:			
F003	0	0	94,469
F005	0	0	116,899
Waste Total	0	0	211,368
Facility 001197			
F-Waste Constituents Reported to TRI:			
n-BUTYL ALCOHOL	0	0	750
Constituent Total	0	0	750
F-Wastes Reported to NCAR:			
D001F002F003F005	0	0	41,900
Waste Total	0	0	41,900
TOTAL FOR ALL FACILITIES:			
	1988	1989	1990
F-Waste Constituents Reported to TRI	8,104,871	6,424,963	2,911,618
F-Wastes Reported to NCAR	29,309,689	29,146,745	34,022,672



APPENDIX F
RESULTS OF COMPARISON OF
SINGLE-MEDIA DATA AND TRI THRESHOLDS



SIC Chemical Qty (lbs)

* Facilities Exceeding the Processed or Manufactured Threshold *

2262	ZINC	21,385
2262	COPPER	208,206

SIC Chemical ----- Qty (lbs) -----

* Facilities Exceeding the Processed or Manufactured Threshold *

None

07/22/93 Facilities Reporting Water Releases to NPDES over the TRI Reporting Threshold for 1989

SIC Chemical Qty (lbs)

* Facilities Exceeding the Processed or Manufactured Threshold *

None

SIC	Chemical	Qty (lbs)
4952	COPPER	14,497
4952	ZINC	32,926

* Facilities Exceeding the Processed or Manufactured Threshold *

4952 COPPER 14,497

4952 ZINC 32,926

SIC	Chemical	Qty (lbs)
* Facilities Exceeding the Processed or Manufactured Threshold *		
N/A	COPPER	13,654
N/A	ARSENIC	234,725
N/A	PHENOL	319,170,240
N/A	TOLUENE	42,700
N/A	SELENIUM	30,500
N/A	MERCURY	36,600
N/A	SILVER	109,800
2011	PHENOL	765,005
2111	TOLUENE	118,798
2221	ANTIMONY	50,857
2221	SILVER	10,680
2221	PHENOL	1,525,701,195
2221	BARIUM	245,625,132
2221	TOLUENE	115,138
2221	SELENIUM	13,817
2221	LEAD	13,817
2221	MERCURY	101,321
2221	COPPER	18,422
2221	SILVER	138,165
2221	TOLUENE	39,483
2221	SELENIUM	43,870
2221	LEAD	26,322
2221	MERCURY	114,062
2221	COPPER	144,771
2221	SILVER	78,966
2221	TOLUENE	28,060
2221	PHENOL	1,220,000,000
2252	BARIUM	38,033,500
2252	TOLUENE	32,788
2252	LEAD	22,296
2252	MERCURY	15,738
2252	COPPER	10,492
2252	ARSENIC	131,150
2252	SILVER	78,690
2252	TOLUENE	94,008
2252	MERCURY	16,242
2252	COPPER	10,258
2252	ARSENIC	76,937
2253	ALUMINUM (FUME OR DUST)	352,331
2258	BARIUM	222,470,050
2258	TOLUENE	70,786
2258	SELENIUM	80,898
2258	LEAD	30,337
2258	MERCURY	141,572
2258	COPPER	30,337
2258	CHROMIUM	505,613,750
2258	COBALT	10,112
2258	CADMIUM	10,112

SIC	Chemical	Qty (lbs)
2258	ALUMINUM (FUME OR DUST)	10,112
2258	SILVER	556,175
2262	COBALT	116,053
2269	PHENOL	17,306,707
2269	TOLUENE	16,013
2269	SELENIUM	26,688
2269	LEAD	21,350
2269	MERCURY	64,050
2269	CADMIUM	10,675
2269	SILVER	234,850
2269	PHENOL	351,717
2269	TOLUENE	11,895
2269	MERCURY	14,640
2269	PHENOL	2,745,000,000
2298	SILVER	977,353
2321	PHENOL	85,044
2322	TOLUENE	120,032
2322	SELENIUM	87,296
2322	LEAD	32,736
2322	MERCURY	120,032
2322	COPPER	65,472
2322	COBALT	10,912
2322	CADMIUM	10,912
2322	ALUMINUM (FUME OR DUST)	10,912
2322	SILVER	578,336
3321	TOLUENE	74,291
3321	SELENIUM	134,633
3339	CYANIDE COMPOUNDS	497,394
3471	SELENIUM	132,844
3471	COBALT	1,195,592
3519	TOLUENE	58,772
3519	MERCURY	16,456
3519	COPPER	423,157
3519	COBALT	23,509
3519	ARSENIC	2,565,977
3536	SILVER	89,213
3714	TOLUENE	383,690
3714	SELENIUM	115,107
3714	LEAD	172,661
3714	MERCURY	57,554
3714	COPPER	57,554
3714	COBALT	19,185
3714	CADMIUM	19,185
3714	ALUMINUM (FUME OR DUST)	19,185
3714	SILVER	1,899,266

SIC	Chemical	Qty (lbs)
* Facilities Exceeding the Otherwise Used Threshold *		
N/A	TOLUENE	50,349
N/A	SELENIUM	20,979
N/A	MERCURY	12,587
N/A	COPPER	12,587
2086	BARIUM	62,049
2211	TOLUENE	33,947
2211	ARSENIC	46,757
2211	ARSENIC	47,183
2231	SILVER	37,988
2251	PHENOL	34,823
2252	TOLUENE	12,353
2254	LEAD	64,050
2254	COPPER	10,169
2254	SILVER	30,500
2257	PHENOL	62,296
2257	COPPER	44,041
2257	SILVER	73,353
2259	MERCURY	20,714
2261	SILVER	58,721
2261	COPPER	14,647
2261	SILVER	54,900
2261	SILVER	20,506
2262	MERCURY	12,189
2262	PHENOL	18,284
2262	SILVER	12,525
2262	TOLUENE	57,645
2262	MERCURY	17,080
2269	PHENOL	14,234
2281	TOLUENE	13,366
2281	SELENIUM	13,366
2281	LEAD	28,960
2281	MERCURY	35,643
2281	COPPER	13,366
2297	TOLUENE	58,403
2297	LEAD	14,601
2297	COPPER	58,403
2439	CHLORINE	12,161
2451	SELENIUM	26,282
2451	LEAD	16,520
2511	MERCURY	16,475

SIC	Chemical	Qty (lbs)
2653	PHENOL	12,894
2834	MERCURY	21,960
3353	PHENOL	47,742
3411	SILVER	47,565
3425	TOLUENE	10,120
3425	MERCURY	10,795
3425	COPPER	62,072
3442	ARSENIC	31,959
3613	TOLUENE	52,342
3613	MERCURY	11,632
3613	COPPER	13,958
3621	TOLUENE	45,857
3621	MERCURY	45,857
3676	LEAD	40,275
3679	TOLUENE	22,326
3829	MERCURY	10,614

SIC	Chemical	Qty (lbs)
* Facilities Exceeding the Processed or Manufactured Threshold *		
N/A	ARSENIC	71,039
N/A	PHENOL	1,323,022,282
2026	TOLUENE	64,604
2032	PHENOL	606,762
2221	PHENOL	42,122,025
2231	ARSENIC	223,769
2231	SILVER	11,712
2251	MERCURY	10,361
2251	TOLUENE	51,806
2252	SELENIUM	12,414
2252	PHENOL	3,055,841
2252	TOLUENE	31,034
2252	MERCURY	22,758
2252	SILVER	10,345
2257	PHENOL	59,870
2269	PHENOL	247,297
2281	PHENOL	6,717,625
2298	SILVER	89,222
2321	PHENOL	78,927
2843	PHENOL	61,268
3425	PHENOL	16,145,938
3519	ARSENIC	135,974
3519	PHENOL	2,948,806
3676	PHENOL	2,812,890
* Facilities Exceeding the Otherwise Used Threshold *		
2016	PHENOL	16,144
2221	PHENOL	37,028
2252	PHENOL	10,201
2252	MERCURY	10,190
2252	ARSENIC	10,190
2257	SILVER	13,491
2261	SILVER	25,639
2262	PHENOL	14,903
2262	MERCURY	13,334
2269	PHENOL	14,889
2269	PHENOL	14,870
2439	CHLORINE	26,873
2653	PHENOL	11,011

SIC	Chemical	Qty (lbs)
* Facilities Exceeding the Processed or Manufactured Threshold *		
N/A	PHENOL	700,444
2016	CYANIDE COMPOUNDS	8,521,649
2016	TOLUENE	660,428
2026	PHENOL	7,840,475
2200	ARSENIC	80,057
2200	TOLUENE	25,206
2211	PHENOL	20,053,549
2211	ARSENIC	39,166
2257	PHENOL	63,993
2258	SILVER	38,406
2261	TOLUENE	62,357
2262	ARSENIC	140,898
2269	PHENOL	405,488
2281	PHENOL	313,266,576
2284	CHLORINE	165,870
2321	PHENOL	65,112
2321	TOLUENE	13,465
2328	TOLUENE	41,578
2328	MERCURY	13,745
2328	SELENIUM	22,335
2396	COPPER	46,749
2396	TOLUENE	30,053
2396	SELENIUM	10,018
2396	MERCURY	43,410
2641	SILVER	219,335
2641	BARIUM	959,204
2843	TOLUENE	3,878,378
2844	MERCURY	22,355
2844	TOLUENE	132,097
3425	PHENOL	26,980,692
3471	MERCURY	487,337
3471	SELENIUM	438,807
3471	MERCURY	1,099,699
3471	LEAD	409,861
3471	TOLUENE	2,208,580
3471	MERCURY	114,607
3471	COPPER	43,527
3471	LEAD	171,779
3471	TOLUENE	169,494
3519	PHENOL	5,606,623

SIC	Chemical	Qty (lbs)
3613	PHENOL	4,605,043
3622	SILVER	129,797
3676	PHENOL	348,081
3692	PHENOL	12,485,779
3714	PHENOL	45,334,578
3829	PHENOL	140,504
* Facilities Exceeding the Otherwise Used Threshold *		
2221	CHROMIUM	11,311
2253	SILVER	14,738
2262	PHENOL	21,941
2269	PHENOL	14,644
2269	PHENOL	18,321
2293	PHENOL	10,195
2821	ALUMINUM (FUME OR DUST)	17,723
2821	TOLUENE	10,502
3281	PHENOL	16,592
3356	MANGANESE AND COMPOUNDS	21,781
3442	ARSENIC	10,331
3443	ARSENIC	16,894
3714	TOLUENE	10,093

SIC	Chemical	Qty (lbs)
* Facilities Exceeding the Processed or Manufactured Threshold *		
2024	PHENOL	1,492,663
2211	ARSENIC	55,992
2251	PHENOL	664,365
2251	PHENOL	230,844,779
2254	PHENOL	3,515,921
2257	PHENOL	53,577
2262	PHENOL	31,378
2262	CADMIUM	35,556
2262	ZINC	76,191
2269	PHENOL	495,427
2269	PHENOL	8,400,459
2281	PHENOL	264,679,317
2284	CHLORINE	156,388
2321	MERCURY	25,475
2321	PHENOL	62,995
2843	PHENOL	65,801
3411	PHENOL	154,537
3425	PHENOL	28,328,606
3471	LEAD	20,681
3471	SILVER	14,218
3471	COPPER	23,266
3471	MERCURY	16,803
3471	TOLUENE	190,005
3471	SELENIUM	19,388
3496	PHENOL	98,391
3519	PHENOL	3,506,294
3629	LEAD	20,601
3629	SELENIUM	13,734
3629	MERCURY	68,670
3629	COPPER	13,734
3676	PHENOL	83,356
3692	PHENOL	19,666,082
3714	PHENOL	66,831,600

SIC	Chemical	Qty (lbs)
* Facilities Exceeding the Otherwise Used Threshold *		
2016	CYANIDE COMPOUNDS	12,067
2251	PHENOL	10,707
2252	PHENOL	11,332
2253	MERCURY	20,359
2262	MERCURY	15,500
2269	PHENOL	17,658
2269	CADMIUM	10,162
2269	PHENOL	18,385
2439	CHLORINE	10,289
2834	ARSENIC	14,736
3443	ARSENIC	15,981



APPENDIX G
RESULTS OF COMPARISON OF TRI DATA
ACROSS REPORTING YEARS



SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
20	COPPER	X			X
2013	HYDROCHLORIC ACID	X			X
2016	AMMONIA	X		X	X
2016	CHLORINE	X		X	X
2016	AMMONIA	X		X	
2021	PHOSPHORIC ACID	X		X	X
2026	PHOSPHORIC ACID	X	X		X
2026	PHOSPHORIC ACID	X			X
2041	CHLORINE	X		X	X
2046	HYDROCHLORIC ACID	X		X	X
2046	SULFURIC ACID	X		X	X
2048	PHOSPHORIC ACID	X		X	X
2077	AMMONIA		X		X
2077	CHLORINE	X			X
2077	AMMONIA		X		X
2082	AMMONIA	X		X	X
2086	PHOSPHORIC ACID		X		X
2087	METHANOL	X		X	X
2087	TOLUENE	X		X	X
2111	ACETONE	X		X	X
2111	METHYL ETHYL KETONE (MEK)	X		X	X
2111	XYLENE	X		X	X
22	SULFURIC ACID	X		X	X
2200	AMMONIUM SULFATE (SOLUTION)	X		X	X
2211	CHLORINE	X		X	X
2211	CHLORINE	X			X
2231	CHROMIUM COMPOUNDS	X		X	X
2251	CHLORINE		X		X
2252	AMMONIUM SULFATE (SOLUTION)	X		X	
2252	CHLORINE	X		X	
2257	SULFURIC ACID		X		X
2257	BIPHENYL	X		X	X

X = reported

07/22/93 TRI Facilities with Discrepancies in Reporting Status Over Time:
 Page 2 1987 to 1990

SIC	Chemical	1987	1988	1989	1990
2257	BIPHENYL	X	X		X
2260	1,1,1-TRICHLOROETHANE	X		X	X
2261	ETHYLENE GLYCOL	X		X	X
2261	GLYCOL ETHERS	X		X	X
2261	SULFURIC ACID	X			X
2262	AMMONIA	X			X
2262	CHLORINE	X			X
2269	AMMONIUM SULFATE (SOLUTION)	X			X
2271	AMMONIA	X	X		X
2271	CHLORINE	X			X
2272	ETHYLENE GLYCOL	X	X		X
2272	CHLORINE	X		X	
2282	ETHYLENE GLYCOL	X		X	X
2283	AMMONIA	X	X		X
2283	AMMONIUM SULFATE (SOLUTION)	X			X
2283	AMMONIUM SULFATE (SOLUTION)	X			X
2293	ACETONE	X	X		X
2293	CHLORINE	X	X		X
2293	SULFURIC ACID	X	X		X
2295	SULFURIC ACID	X			X
2295	DECABROMODIPHENYL OXIDE	X		X	X
2296	SULFURIC ACID	X	X		X
2299	CHLORINE	X			X
2299	COPPER COMPOUNDS	X	X		X
2421	ARSENIC	X		X	X
2421	COPPER	X		X	X
2436	FORMALDEHYDE	X			X
2436	PHENOL	X			X
2491	ARSENIC COMPOUNDS	X		X	X
2491	CHROMIUM COMPOUNDS	X		X	X
2491	COPPER COMPOUNDS	X		X	X
2491	COPPER COMPOUNDS	X		X	X
2491	CHROMIUM COMPOUNDS	X		X	X
2491	ARSENIC COMPOUNDS	X		X	X
2491	CHROMIUM COMPOUNDS	X		X	X
2493	BARIUM COMPOUNDS	X			X

X = reported

SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
2493	SULFURIC ACID	X			X
2499	ACETONE	X	X	X	X
2499	TOLUENE	X	X	X	X
2511	XYLENE	X	X	X	X
2511	TOLUENE	X	X	X	X
2511	ACETONE	X	X	X	X
2511	METHYL ETHYL KETONE (MEK)	X	X	X	X
2511	n-BUTYL ALCOHOL	X	X	X	X
2511	XYLENE	X	X	X	X
2511	ACETONE	X	X	X	X
2511	METHYL ETHYL KETONE (MEK)	X	X	X	X
2511	ACETONE	X	X	X	X
2511	BIS (2-ETHYLHEXYL) PHTHALATE	X	X	X	X
2511	n-BUTYL ALCOHOL	X	X	X	X
2511	METHYL ETHYL KETONE (MEK)	X	X	X	X
2511	METHANOL	X	X	X	X
2511	TOLUENE	X	X	X	X
2511	XYLENE	X	X	X	X
2511	n-BUTYL ALCOHOL	X	X	X	X
2511	ACETONE	X	X	X	X
2511	BIS (2-ETHYLHEXYL) PHTHALATE	X	X	X	X
2511	n-BUTYL ALCOHOL	X	X	X	X
2511	METHYL ETHYL KETONE (MEK)	X	X	X	X
2511	METHANOL	X	X	X	X
2511	TOLUENE	X	X	X	X
2511	XYLENE	X	X	X	X
2511	METHYL ETHYL KETONE (MEK)	X	X	X	X
2511	ACETONE	X	X	X	X
2511	ACETONE	X	X	X	X
2511	ACETONE	X	X	X	X
2511	METHYL ETHYL KETONE (MEK)	X	X	X	X
2511	METHANOL	X	X	X	X
2511	TOLUENE	X	X	X	X
2511	XYLENE	X	X	X	X
2511	TOLUENE	X	X	X	X
2511	n-BUTYL ALCOHOL	X	X	X	X
2511	GLYCOL ETHERS	X	X	X	X
2511	ACETONE	X	X	X	X
2511	n-BUTYL ALCOHOL	X	X	X	X

X = reported

TRI Facilities with Discrepancies in Reporting Status Over Time:
1987 to 1990

SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
2511	n-BUTYL ALCOHOL	X	X	X	X
2511	n-BUTYL ALCOHOL	X	X	X	X
2511	n-BUTYL ALCOHOL	X	X	X	X
2511	XYLENE	X	X	X	X
2512	METHYL ETHYL KETONE (MEK)	X	X	X	X
2512	TOLUENE	X	X	X	X
2512	METHYL ETHYL KETONE (MEK)	X	X	X	X
2514	CHROMIUM	X	X	X	X
2514	CYANIDE COMPOUNDS	X	X	X	X
2514	NICKEL COMPOUNDS	X	X	X	X
2514	XYLENE	X	X	X	X
2517	XYLENE	X	X	X	X
2519	METHYL ETHYL KETONE (MEK)	X	X	X	X
2521	METHYL ETHYL KETONE (MEK)	X	X	X	X
2521	METHANOL	X	X	X	X
2521	TOLUENE	X	X	X	X
2521	ACETONE	X	X	X	X
2521	METHYL ETHYL KETONE (MEK)	X	X	X	X
2521	METHANOL	X	X	X	X
2521	TOLUENE	X	X	X	X
2521	XYLENE	X	X	X	X
2521	METHANOL	X	X	X	X
2521	n-BUTYL ALCOHOL	X	X	X	X
2521	GLYCOL ETHERS	X	X	X	X
2621	POLYCHLORINATED BIPHENYLS (PCB)	X	X	X	X
2657	DI-N-BUTYL PHTHALATE	X	X	X	X
2657	METHANOL	X	X	X	X
2754	METHYL ETHYL KETONE (MEK)	X	X	X	X
2815	TEREPHTHALIC ACID	X	X	X	X
2818	ACRYLAMIDE	X	X	X	X
2818	AMMONIA	X	X	X	X
2818	SULFURIC ACID	X	X	X	X
2819	ARSENIC COMPOUNDS	X	X	X	X
2819	CHROMIUM COMPOUNDS	X	X	X	X
2819	SILVER COMPOUNDS	X	X	X	X
2819	CHLORINE	X	X	X	X
2819	HYDROCHLORIC ACID	X	X	X	X

X = reported

SIC Chemical

Reporting status in:
1987 1988 1989 1990

SIC	Chemical	1987	1988	1989	1990
2819	ALUMINUM OXIDE	X	X	X	X
2819	AMMONIA	X	X	X	X
2819	ARSENIC	X	X	X	X
2819	CHROMIUM	X	X	X	X
2819	COPPER	X	X	X	X
2819	PHOSPHORIC ACID	X	X	X	X
2821	COPPER	X	X	X	X
2821	SULFURIC ACID	X	X	X	X
2821	n-BUTYL ALCOHOL	X	X	X	X
2821	FORMALDEHYDE	X	X	X	X
2821	METHANOL	X	X	X	X
2821	HYDROCHLORIC ACID	X	X	X	X
2821	STYRENE	X	X	X	X
2821	BIPHENYL	X	X	X	X
2821	ACETONE	X	X	X	X
2821	METHYL ETHYL KETONE (MEK)	X	X	X	X
2821	STYRENE	X	X	X	X
2821	ETHYLBENZENE	X	X	X	X
2821	NAPHTHALENE	X	X	X	X
2821	TOLUENE	X	X	X	X
2821	XYLENE	X	X	X	X
2821	AMMONIA	X	X	X	X
2821	DI-N-BUTYL PHTHALATE	X	X	X	X
2821	METHANOL	X	X	X	X
2821	ACRYLIC ACID	X	X	X	X
2821	DI-N-OCTYL PHTHALATE	X	X	X	X
2821	4,4'-METHYLENE DIANILINE	X	X	X	X
2821	1-NAPHTHYLAMINE	X	X	X	X
2821	PHTHALIC ANHYDRIDE	X	X	X	X
2821	TOLUENE DIISOCYANATE	X	X	X	X
2821	TOLUENE DIISOCYANATE	X	X	X	X
2821	ACRYLIC ACID	X	X	X	X
2821	AMMONIA	X	X	X	X
2821	ACRYLONITRILE	X	X	X	X
2821	BUTYL ACRYLATE	X	X	X	X
2821	ETHYL ACRYLATE	X	X	X	X
2821	METHYL ACRYLATE	X	X	X	X
2821	METHYL METHACRYLATE	X	X	X	X
2821	STYRENE	X	X	X	X
2821	ACRYLONITRILE	X	X	X	X
2821	BUTYL ACRYLATE	X	X	X	X
2821	METHYL ACRYLATE	X	X	X	X
2821	METHYL METHACRYLATE	X	X	X	X
2821	STYRENE	X	X	X	X
2821	VINYL ACETATE	X	X	X	X

X = reported

SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
2824	TEREPHTHALIC ACID	X			X
2824	SULFURIC ACID	X	X	X	X
2824	ANTIMONY COMPOUNDS	X	X	X	X
2824	HYDROCHLORIC ACID	X	X	X	X
2824	MANGANESE COMPOUNDS	X	X	X	X
2824	2-METHOXYETHANOL	X	X	X	X
2824	PHOSPHORIC ACID	X	X	X	X
2824	TEREPHTHALIC ACID	X			X
2824	AMMONIA	X	X	X	X
2824	ANTIMONY COMPOUNDS	X	X	X	X
2824	ETHYLENE OXIDE	X	X	X	X
2833	CHLORINE	X	X	X	X
2834	CHLORINE	X	X	X	X
2834	SULFURIC ACID	X	X	X	X
2834	ETHYLENE GLYCOL	X			X
2834	HYDROCHLORIC ACID	X			X
2834	n-BUTYL ALCOHOL	X	X	X	X
2834	DIETHYL PHTHALATE	X	X	X	X
2834	DIMETHYL PHTHALATE	X	X	X	X
2834	ETHYLENE GLYCOL	X	X	X	X
2834	METHANOL	X	X	X	X
2834	PHTHALIC ANHYDRIDE	X	X	X	X
2834	SULFURIC ACID	X	X	X	X
2834	TOLUENE	X	X	X	X
2834	HYDROCHLORIC ACID	X	X	X	X
2834	NITRIC ACID	X	X	X	X
2841	BENZYL CHLORIDE	X	X	X	X
2841	n-BUTYL ALCOHOL	X	X	X	X
2841	GLYCOL ETHERS	X	X	X	X
2841	NAPHTHALENE	X	X	X	X
2841	SULFURIC ACID	X	X	X	X
2841	TEREPHTHALIC ACID	X	X	X	X
2841	TETRACHLOROETHYLENE	X	X	X	X
2841	1,2,4-TRICHLOROBENZENE	X	X	X	X
2841	XYLENE	X	X	X	X
2842	HYDROCHLORIC ACID	X	X	X	X
2842	STYRENE	X	X	X	X
2843	BIPHENYL	X	X	X	X
2843	DIETHANOLAMINE	X	X	X	X
2843	METHANOL	X	X	X	X
2843	1,2,4-TRICHLOROBENZENE	X	X	X	X
2843	MALEIC ANHYDRIDE	X	X	X	X
2843	PHOSPHORIC ACID	X	X	X	X
2843	METHANOL	X	X	X	X

X = reported

07/22/93 TRI Facilities with Discrepancies in Reporting Status Over Time:

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SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
2843	XYLENE		X		X
2843	SULFURIC ACID	X		X	X
2843	ANTIMONY COMPOUNDS	X	X	X	X
2843	BENZYL CHLORIDE	X	X	X	X
2843	BIPHENYL	X	X	X	X
2843	BUTYL BENZYL PHTHALATE	X	X	X	X
2843	CHLORINE	X	X	X	X
2843	GLYCOL ETHERS	X	X	X	X
2843	1,2,4-TRICHLOROBENZENE	X	X	X	X
2843	XYLENE	X	X	X	X
2843	CHLOROACETIC ACID	X	X	X	X
2843	FORMALDEHYDE	X	X	X	X
2843	METHANOL	X	X	X	X
2843	SULFURIC ACID	X	X	X	X
2843	TETRACHLOROETHYLENE	X	X	X	X
2843	1,2,4-TRICHLOROBENZENE	X	X	X	X
2851	n-BUTYL ALCOHOL	X	X	X	X
2851	GLYCOL ETHERS	X	X	X	X
2851	METHYL ISOBUTYL KETONE	X	X	X	X
2851	1,1,1-TRICHLOROETHANE	X	X	X	X
2851	XYLENE	X	X	X	X
2851	ACETONE	X	X	X	X
2851	n-BUTYL ALCOHOL	X	X	X	X
2851	TOLUENE	X	X	X	X
2851	ETHYLENE GLYCOL	X	X	X	X
2851	METHYL ETHYL KETONE (MEK)	X	X	X	X
2851	METHANOL	X	X	X	X
2851	TOLUENE	X	X	X	X
2851	METHYL ISOBUTYL KETONE	X	X	X	X
2851	XYLENE	X	X	X	X
2851	ACETONE	X	X	X	X
2851	n-BUTYL ALCOHOL	X	X	X	X
2851	METHYL ETHYL KETONE (MEK)	X	X	X	X
2851	METHANOL	X	X	X	X
2851	XYLENE	X	X	X	X
2851	GLYCOL ETHERS	X	X	X	X
2851	METHANOL	X	X	X	X
2851	METHYL ISOBUTYL KETONE	X	X	X	X
2851	XYLENE	X	X	X	X
2851	BARIUM COMPOUNDS	X	X	X	X
2851	DI-N-OCTYL PHTHALATE	X	X	X	X
2851	ETHYLBENZENE	X	X	X	X
2851	BARIUM COMPOUNDS	X	X	X	X
2851	GLYCOL ETHERS	X	X	X	X
2851	MANGANESE COMPOUNDS	X	X	X	X

X = reported

SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
2851	METHYL ISOBUTYL KETONE	X	X	X	X
2865	GLYCOL ETHERS	X	X	X	X
2865	FORMALDEHYDE	X	X		
2865	CHLOROBENZENE	X	X	X	X
2865	CHROMIUM COMPOUNDS	X	X	X	X
2865	COBALT COMPOUNDS	X	X	X	X
2865	COPPER COMPOUNDS	X	X	X	X
2865	HYDROCHLORIC ACID	X	X	X	X
2865	NICKEL COMPOUNDS	X	X	X	X
2865	NITRIC ACID	X	X	X	X
2865	PHENOL	X	X	X	X
2865	PICRIC ACID	X	X	X	X
2865	SULFURIC ACID	X	X	X	X
2865	o-TOLUIDINE	X	X	X	X
2869	ACRYLIC ACID	X	X	X	X
2869	ACRYLONITRILE	X	X	X	X
2869	CHLORINE	X	X	X	X
2869	GLYCOL ETHERS	X	X	X	X
2869	SULFURIC ACID	X	X	X	X
2869	MALEIC ANHYDRIDE	X	X	X	X
2869	SULFURIC ACID	X	X	X	X
2869	n-BUTYL ALCOHOL	X	X	X	X
2869	HYDROCHLORIC ACID	X	X	X	X
2869	SULFURIC ACID	X	X	X	X
2869	XYLENE	X	X	X	X
2869	NITRIC ACID	X	X	X	X
2869	ZINC COMPOUNDS	X	X	X	X
2869	PHTHALIC ANHYDRIDE	X	X	X	X
2869	TOLUENE	X	X	X	X
2873	AMMONIUM SULFATE (SOLUTION)	X	X	X	X
2873	CHLORINE	X	X	X	X
2873	NITRIC ACID	X	X	X	X
2874	CHLORINE	X	X	X	X
2875	AMMONIA	X	X	X	X
2875	AMMONIUM NITRATE (SOLUTION)	X	X	X	X
2875	MANGANESE COMPOUNDS	X	X	X	X
2875	PHOSPHORIC ACID	X	X	X	X
2875	SULFURIC ACID	X	X	X	X
2875	ZINC COMPOUNDS	X	X	X	X
2875	PHOSPHORIC ACID	X	X	X	X
2879	CHLORINE	X	X	X	X
2891	DIMETHYL PHTHALATE	X	X	X	X

X = reported

SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
2891	DI-N-BUTYL PHTHALATE	X			X
2891	FORMALDEHYDE	X			X
2893	ACETONE	X			X
2893	BARIUM COMPOUNDS	X			X
2893	COPPER COMPOUNDS	X			X
2893	LEAD COMPOUNDS	X			X
2893	ZINC	X			X
2893	TOLUENE		X		X
2899	n-BUTYL ALCOHOL	X			X
2899	METHANOL	X			X
2899	PHOSPHORIC ACID	X			X
2899	SULFURIC ACID	X			X
2899	CRESOL(S)	X			X
2899	ETHYLENE GLYCOL	X			X
2899	METHYLENE CHLORIDE	X			X
2899	TETRACHLOROETHYLENE	X			X
2899	1,1,1-TRICHLOROETHANE	X			X
2899	FORMALDEHYDE	X			X
3021	ZINC COMPOUNDS	X	X		X
3052	TOLUENE	X			X
3052	1,1,1-TRICHLOROETHANE	X			X
3052	METHYL ETHYL KETONE (MEK)	X	X		X
3069	BIS (2-ETHYLHEXYL) PHTHALATE	X			X
3069	1,1,1-TRICHLOROETHANE	X			X
3069	LEAD COMPOUNDS	X			X
3069	1,1,1-TRICHLOROETHANE	X			X
3069	DI-N-OCTYL PHTHALATE	X			X
3069	METHYL ETHYL KETONE (MEK)	X			X
3069	TOLUENE	X			X
3069	ZINC COMPOUNDS	X			X
3079	STYRENE	X			X
3079	METHYLENE CHLORIDE	X			X
3079	METHYL ETHYL KETONE (MEK)	X			X
3079	BIS (2-ETHYLHEXYL) PHTHALATE	X			X
3079	SULFURIC ACID	X			X
3079	TOLUENE DIISOCYANATE	X			X
3079	TOLUENE DIISOCYANATE	X			X

X = reported

07/22/93 TRI Facilities with Discrepancies in Reporting Status Over Time:
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SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
3079	METHYLENE BIS(PHENYLISOCYANATE)	X		X	X
3079	STYRENE	X		X	X
3079	1,1,1-TRICHLOROETHANE	X		X	X
3079	XYLENE	X		X	X
3087	ACETONE		X		X
3111	CYCLOHEXANE		X		X
3143	BIS(2-ETHYLHEXYL) ADIPATE		X		X
3229	ACETONE	X		X	X
3229	CHLOROPHENOLS	X		X	X
3229	HYDROFLUORIC ACID	X		X	X
3229	SULFURIC ACID	X		X	X
3229	CHLORINE	X		X	X
3229	PHOSPHORIC ACID	X		X	X
3231	SULFURIC ACID	X	X		X
3245	LEAD COMPOUNDS	X		X	X
3251	MANGANESE AND COMPOUNDS	X		X	X
3291	TETRACHLOROETHYLENE	X			X
3293	SULFURIC ACID	X			X
3295	n-BUTYL ALCOHOL	X			X
3295	CHLOROBENZENE	X		X	X
3295	CYCLOHEXANE	X	X		X
3295	ETHYLBENZENE	X			X
3295	METHYLENE CHLORIDE	X		X	X
3295	TETRACHLOROETHYLENE	X		X	X
3295	TRICHLOROETHYLENE	X		X	X
3298	PHOSPHORIC ACID	X			X
3312	COPPER COMPOUNDS	X		X	X
3315	SULFURIC ACID	X		X	X
3351	COPPER	X			X
3351	SULFURIC ACID	X		X	X
3353	CHLORINE	X		X	X
3354	PHOSPHORIC ACID	X		X	X
3354	TOLUENE	X		X	X
3356	LEAD COMPOUNDS	X		X	X
3356	HYDROFLUORIC ACID	X	X		X
3399	COBALT	X		X	X

X = reported

TRI Facilities with Discrepancies in Reporting Status Over Time:

Reporting status in:
1987 1988 1989 1990

SIC Chemical

SIC	Chemical	1987	1988	1989	1990
3399	AMMONIA	X	X	X	X
3399	COPPER	X	X	X	X
34	ACETONE	X	X	X	X
34	FREON 113	X	X	X	X
34	METHANOL	X	X	X	X
34	XYLENE	X	X	X	X
34	METHYLENE CHLORIDE	X	X	X	X
3411	GLYCOL ETHERS	X	X	X	X
3412	XYLENE	X	X	X	X
3412	ACETONE	X	X	X	X
3412	METHYL ETHYL KETONE (MEK)	X	X	X	X
3417	FREON 113	X	X	X	X
3423	ACETONE	X	X	X	X
3423	TOLUENE	X	X	X	X
3423	XYLENE	X	X	X	X
3423	HYDROCHLORIC ACID	X	X	X	X
3425	HYDROCHLORIC ACID	X	X	X	X
3429	CHLORINE	X	X	X	X
3429	SULFURIC ACID	X	X	X	X
3429	CYANIDE COMPOUNDS	X	X	X	X
3443	TOLUENE	X	X	X	X
3448	n-BUTYL ALCOHOL	X	X	X	X
3448	TOLUENE	X	X	X	X
3448	SULFURIC ACID	X	X	X	X
3449	METHANOL	X	X	X	X
3449	XYLENE	X	X	X	X
3471	SULFURIC ACID	X	X	X	X
3471	HYDROCHLORIC ACID	X	X	X	X
3471	NITRIC ACID	X	X	X	X
3471	SULFURIC ACID	X	X	X	X
3479	COPPER COMPOUNDS	X	X	X	X
3479	HYDROCHLORIC ACID	X	X	X	X
3479	SULFURIC ACID	X	X	X	X
3479	ZINC COMPOUNDS	X	X	X	X
3494	NITRIC ACID	X	X	X	X
3494	TRICHLOROETHYLENE	X	X	X	X
3496	HYDROCHLORIC ACID	X	X	X	X

X = reported

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TRI Facilities with Discrepancies in Reporting Status Over Time:
1987 to 1990

SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
3496	HYDROCHLORIC ACID	X		X	X
3496	COPPER	X		X	X
3496	LEAD COMPOUNDS	X		X	X
3498	METHANOL	X	X		X
3498	1,1,1-TRICHLOROETHANE	X	X		X
3499	AMMONIA	X		X	X
3499	TOLUENE	X		X	X
3499	XYLENE	X		X	X
3499	TOLUENE	X		X	X
3499	XYLENE	X		X	X
3519	DIETHANOLAMINE		X		X
3519	METHYL ISOBUTYL KETONE	X	X		X
3519	SULFURIC ACID	X	X		X
3519	XYLENE	X		X	X
3545	AMMONIA	X		X	X
3546	AMMONIA	X			X
3552	SULFURIC ACID	X		X	X
3552	1,1,1-TRICHLOROETHANE	X		X	X
3562	METHANOL	X		X	X
3573	COPPER	X		X	X
3573	HYDROCHLORIC ACID	X	X		X
3573	LEAD	X		X	X
3573	NITRIC ACID	X		X	X
3573	SULFURIC ACID	X		X	X
3573	1,1,1-TRICHLOROETHANE	X		X	X
3579	TETRACHLOROETHYLENE		X		X
3579	METHANOL	X		X	
3600	1,1,1-TRICHLOROETHANE	X	X		X
3613	COPPER	X		X	X
3621	XYLENE	X		X	X
3621	CHROMIUM COMPOUNDS	X		X	X
3621	NITRIC ACID	X		X	X
3621	PHOSPHORIC ACID	X		X	X
3622	HYDROCHLORIC ACID	X	X		X
3622	SULFURIC ACID	X	X		X
3622	COPPER	X		X	X
3624	LEAD	X		X	
3629	SULFURIC ACID	X			X

X = reported

SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
3634	CHROMIUM COMPOUNDS	X			X
3634	HYDROCHLORIC ACID	X			X
3643	TETRACHLOROETHYLENE	X			X
3646	CHLORINE	X		X	X
3646	NITRIC ACID	X		X	X
3646	PHOSPHORIC ACID	X		X	X
3646	SULFURIC ACID	X		X	X
3661	NITRIC ACID	X		X	X
3661	SULFURIC ACID	X		X	X
3674	SULFURIC ACID	X		X	
3674	HYDROFLUORIC ACID	X		X	
3674	SULFURIC ACID	X			X
3675	XYLENE	X		X	X
3676	1,1,1-TRICHLOROETHANE	X		X	X
3678	SULFURIC ACID	X		X	X
3691	ANTIMONY	X			X
3691	ARSENIC		X		X
3691	LEAD	X			X
3692	1,1,1-TRICHLOROETHANE		X		X
3699	COPPER	X		X	X
3699	NICKEL	X		X	X
3699	PHOSPHORIC ACID	X		X	X
3699	SULFURIC ACID	X		X	X
3700	n-BUTYL ALCOHOL	X		X	X
3700	XYLENE	X		X	X
3700	METHANOL	X		X	X
3713	TOLUENE	X		X	X
3714	MANGANESE AND COMPOUNDS	X	X		X
3714	ZINC COMPOUNDS	X	X	X	X
3714	1,1,1-TRICHLOROETHANE		X		X
3714	COPPER		X		X
3714	METHANOL	X		X	X
3732	ACETONE	X	X		X
3732	STYRENE	X	X		X
3732	ACETONE		X		X
3732	STYRENE		X		X

X = reported

SIC	Chemical	Reporting status in:			
		1987	1988	1989	1990
3842	ETHYLENE OXIDE	X		X	
3873	LEAD	X		X	X
3964	METHYL ETHYL KETONE (MEK)	X		X	
3964	XYLENE	X		X	
3999	SULFURIC ACID	X		X	X
3999	CHLORINE	X		X	X
3999	CHROMIUM COMPOUNDS	X		X	
3999	HYDROCHLORIC ACID	X		X	X
3999	NITRIC ACID	X		X	X
5191	METHYL BROMIDE	X		X	X
9900	ACETONE	X		X	X
9900	n-BUTYL ALCOHOL	X		X	X
9900	ETHYLBENZENE	X		X	X
9900	FORMALDEHYDE	X		X	X
9900	GLYCOL ETHERS	X		X	X
9900	METHYL ETHYL KETONE (MEK)	X		X	X
9900	METHANOL	X		X	X
9900	METHYL ISOBUTYL KETONE	X		X	X
9900	TOLUENE	X		X	X
9900	XYLENE	X		X	X
NA	MANGANESE AND COMPOUNDS	X		X	X

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
 Page 1 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1989	1990
1479	SODIUM HYDROXIDE	42,000	72,000	NR
20	SODIUM HYDROXIDE	608,098	448,851	NR
20	SODIUM HYDROXIDE	250,000	93,000	NR
2011	SODIUM HYDROXIDE	63,000	NR	NR
2013	SODIUM HYDROXIDE	59,800	NR	NR
2015	AMMONIA	17,000	17,000	30,300
2024	SODIUM HYDROXIDE	37,191	44,627	NR
2024	SODIUM HYDROXIDE	149,892	148,365	NR
2046	SODIUM SULFATE (SOLUTION)	7,000,000	NR	NR
2046	SODIUM HYDROXIDE	280,500	1,200,000	NR
2052	AMMONIA	NR	NR	53,000
2086	SODIUM HYDROXIDE	73,841	45,674	NR
2086	SODIUM HYDROXIDE	NR	37,363	NR
2111	METHYL ETHYL KETONE (MEK)	362,182	1,309,883	1,604,814
2111	TOLUENE	3,125,065	795,737	945,817
2111	AMMONIA	180,883	NR	NR
2111	AMMONIA	173,079	NR	NR
2111	POLYCHLORINATED BIPHENYLS (P	NR	90,000	NR
22	SODIUM HYDROXIDE	470,250	470,000	NR
22	SODIUM SULFATE (SOLUTION)	2,154,800	NR	NR
22	SODIUM HYDROXIDE	950,000	757,470	NR
2200	SODIUM SULFATE (SOLUTION)	3,000,000	NR	NR
2200	SODIUM HYDROXIDE	517,000	1,055,000	NR
2200	ETHYLENE GLYCOL	75,000	NR	NR
2200	SODIUM HYDROXIDE	1,422,000	552,779	NR
2205	AMMONIA	6,619	45,183	46,683
2211	SODIUM SULFATE (SOLUTION)	1,145,300	NR	NR
2211	SODIUM SULFATE (SOLUTION)	4,971,650	NR	NR
2211	SODIUM SULFATE (SOLUTION)	1,155,200	NR	NR
2221	SODIUM HYDROXIDE	490,000	711,000	NR
2221	ETHYLENE GLYCOL	NR	NR	53,200
2221	SODIUM HYDROXIDE	18,250	101,150	NR

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
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SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1989
2221	SODIUM HYDROXIDE	NR	27,500	NR
2221	SODIUM HYDROXIDE	119,500	125,000	NR
2221	SODIUM SULFATE (SOLUTION)	62,500	NR	NR
2221	SODIUM HYDROXIDE	52,994	32,650	NR
2221	SODIUM HYDROXIDE	143,050	115,065	NR
2221	SODIUM SULFATE (SOLUTION)	420,000	NR	NR
2231	SODIUM SULFATE (SOLUTION)	182,210	NR	NR
2251	SODIUM SULFATE (SOLUTION)	105,000	NR	NR
2252	CHLORINE	NR	56,560	78,000
2252	AMMONIUM SULFATE (SOLUTION)	40,000	29,500	45,000
2252	CHLORINE	171,787	252,670	323,184
2252	CHLORINE	32,928	24,600	29,452
2252	SODIUM SULFATE (SOLUTION)	854,200	NR	NR
2252	BIPHENYL	39,560	26,995	NR
2252	CHLORINE	39,105	33,000	67,732
2252	SODIUM SULFATE (SOLUTION)	60,000	NR	NR
2253	SODIUM HYDROXIDE	111,345	NR	NR
2253	SODIUM HYDROXIDE	NR	240,000	NR
2253	SULFURIC ACID	NR	120,000	NR
2253	SODIUM SULFATE (SOLUTION)	4,388,850	NR	NR
2253	SODIUM SULFATE (SOLUTION)	8,976,700	NR	NR
2257	SODIUM HYDROXIDE	50,700	58,825	NR
2257	SODIUM SULFATE (SOLUTION)	1,508,433	NR	NR
2257	SODIUM SULFATE (SOLUTION)	930,550	NR	NR
2257	SODIUM HYDROXIDE	500	47,500	NR
2257	SODIUM SULFATE (SOLUTION)	2,300,039	NR	NR
2257	SODIUM SULFATE (SOLUTION)	3,506,900	NR	NR
2257	SODIUM SULFATE (SOLUTION)	5,300,200	NR	NR
2257	SODIUM SULFATE (SOLUTION)	20,686,964	NR	NR
2257	GLYCOL ETHERS	NR	NR	100,000
2257	1,2-DICHLOROBENZENE	NR	NR	100,000
2257	AMMONIUM SULFATE (SOLUTION)	76,735	NR	NR
2257	PSEUDOCUMENE	NR	33,220	NR
2257	SODIUM SULFATE (SOLUTION)	332,640	NR	NR

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
 Page 3 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1989
2258	SODIUM HYDROXIDE	NR	49,006	NR
2258	TETRACHLOROETHYLENE	80,460	64,471	45,559
2258	AMMONIUM SULFATE (SOLUTION)	19,400	19,950	25,850
2258	SODIUM SULFATE (SOLUTION)	137,300	NR	NR
2258	SODIUM SULFATE (SOLUTION)	234,250	NR	NR
2258	SODIUM HYDROXIDE	41,122	29,885	NR
2258	PSEUDOCUMENE	NR	NR	28,381
2258	AMMONIUM SULFATE (SOLUTION)	290,000	152,000	184,800
2258	SODIUM HYDROXIDE	29,750	26,600	NR
226	SULFURIC ACID	271,000	271,000	NR
2260	TETRACHLOROETHYLENE	NR	NR	39,650
2260	1,2,4-TRICHLOROBENZENE	NR	NR	30,800
2261	SODIUM HYDROXIDE	NR	213,338	NR
2261	SODIUM SULFATE (SOLUTION)	6,050,200	NR	NR
2261	SODIUM SULFATE (SOLUTION)	1,000,000	NR	NR
2261	SODIUM HYDROXIDE	167,000	NR	NR
2261	SODIUM SULFATE (SOLUTION)	759,584	NR	NR
2261	SODIUM HYDROXIDE	NR	103,062	NR
2261	SODIUM HYDROXIDE	NR	59,700	NR
2262	AMMONIA	19,342	14,264	25,759
2262	SODIUM SULFATE (SOLUTION)	68,911	NR	NR
2262	SODIUM SULFATE (SOLUTION)	352,306	NR	NR
2262	SODIUM SULFATE (SOLUTION)	970,000	NR	NR
2262	SODIUM HYDROXIDE	75,687	91,397	NR
2262	SODIUM HYDROXIDE	400,000	280,000	NR
2262	SODIUM SULFATE (SOLUTION)	680,000	NR	NR
2262	1,1,1-TRICHLOROETHANE	63,000	48,300	66,000
2262	SODIUM HYDROXIDE	150,453	NR	NR
2262	SODIUM SULFATE (SOLUTION)	85,500	NR	NR
2269	SODIUM SULFATE (SOLUTION)	637,910	NR	NR
2269	SODIUM HYDROXIDE	981,532	495,286	NR
2269	AMMONIUM SULFATE (SOLUTION)	45,862	91,104	NR
2269	SODIUM SULFATE (SOLUTION)	940,000	NR	NR
2269	SODIUM HYDROXIDE	360,000	NR	NR

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
 Page 4 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1989
2269	SODIUM HYDROXIDE	38,475	34,500	NR
2269	SODIUM SULFATE (SOLUTION)	880,000	NR	NR
2269	SODIUM HYDROXIDE	390,000	NR	NR
2269	SODIUM SULFATE (SOLUTION)	150,000	NR	NR
2269	SODIUM SULFATE (SOLUTION)	1,575,000	NR	NR
2269	SODIUM HYDROXIDE	63,500	335,000	NR
2269	1,2,4-TRICHLOROBENZENE	NR	18,560	33,000
2269	SODIUM HYDROXIDE	12,500	36,500	NR
2269	SODIUM HYDROXIDE	NR	290,000	NR
2269	SODIUM HYDROXIDE	109,560	108,365	NR
2269	SODIUM SULFATE (SOLUTION)	264,900	NR	NR
2269	SODIUM HYDROXIDE	NR	26,600	NR
2269	SODIUM SULFATE (SOLUTION)	259,950	NR	NR
2269	SODIUM HYDROXIDE	68,700	82,450	NR
2269	TETRACHLOROETHYLENE	43,902	43,375	38,625
2272	SODIUM SULFATE (SOLUTION)	196,605	NR	NR
2272	SODIUM HYDROXIDE	105,810	114,908	NR
2272	AMMONIUM SULFATE (SOLUTION)	NR	52,650	NR
2272	AMMONIA	155,250	47,680	NR
2281	SODIUM SULFATE (SOLUTION)	669,550	NR	NR
2281	SODIUM SULFATE (SOLUTION)	170,000	NR	NR
2281	1,1,1-TRICHLOROETHANE	91,637	NR	NR
2281	SODIUM HYDROXIDE	70,250	150,000	NR
2282	SODIUM HYDROXIDE	34,000	157,971	NR
2283	SODIUM SULFATE (SOLUTION)	360,000	NR	NR
2293	SODIUM HYDROXIDE	1,858,724	1,857,734	NR
2295	SODIUM HYDROXIDE	55,500	NR	NR
2295	XYLENE	31,500	61,000	NR
2297	BIS (2-ETHYLHEXYL) PHTHALATE	NR	39,000	41,800
2298	SODIUM SULFATE (SOLUTION)	548,460	NR	NR
2299	SODIUM SULFATE (SOLUTION)	155,823	NR	NR
2299	SODIUM SULFATE (SOLUTION)	1,779,750	NR	NR
2299	SODIUM HYDROXIDE	232,250	348,070	NR
2300	SODIUM HYDROXIDE	NR	305,680	NR

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
 Page 5 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1990
2300	SODIUM HYDROXIDE	201,719	NR	NR
2321	SODIUM SULFATE (SOLUTION)	620,000	NR	NR
2321	SODIUM HYDROXIDE	55,000	82,250	NR
2322	SODIUM SULFATE (SOLUTION)	177,000	NR	NR
2322	SODIUM SULFATE (SOLUTION)	236,000	NR	NR
2322	SODIUM HYDROXIDE	500	183,144	NR
2322	SODIUM SULFATE (SOLUTION)	768,450	NR	NR
2322	SODIUM HYDROXIDE	500	170,023	NR
2322	BIPHENYL	39,650	47,778	NR
2322	SODIUM HYDROXIDE	NR	86,688	NR
2341	SODIUM SULFATE (SOLUTION)	97,750	NR	NR
2341	SODIUM HYDROXIDE	28,809	26,606	NR
2434	METHANOL	NR	NR	33,010
2499	GLYCOL ETHERS	NR	NR	52,012
2499	TOLUENE	NR	NR	34,018
2511	TOLUENE	111,046	53,552	NR
2511	METHANOL	48,096	49,529	NR
2511	ACETONE	60,312	82,535	93,284
2511	METHANOL	47,234	27,717	NR
2511	TOLUENE	105,319	100,669	110,643
2511	METHYL ETHYL KETONE (MEK)	61,000	58,252	69,034
2511	n-BUTYL ALCOHOL	55,314	49,607	57,593
2511	XYLENE	39,482	38,028	38,573
2511	ISOPROPYL ALCOHOL	NR	27,018	31,314
2511	TOLUENE	64,541	59,654	55,598
2511	n-BUTYL ALCOHOL	50,322	56,669	54,092
2511	XYLENE	29,678	31,595	28,200
2511	METHYL ETHYL KETONE (MEK)	26,079	31,139	36,848
2511	METHANOL	51,843	41,612	36,366
2511	TOLUENE	21,574	25,478	25,313
2511	FORMALDEHYDE	NR	NR	30,504
2511	XYLENE	14,191	19,839	30,346
2511	METHYL ETHYL KETONE (MEK)	NR	42,404	NR
2511	TOLUENE	NR	39,459	NR
2511	TOLUENE	52,250	NR	NR
2511	ACETONE	52,250	NR	NR
2511	TOLUENE	NR	192,895	NR

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
 Page 6 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1990
2511	BIS (2-ETHYLHEXYL) PHTHALATE	50,391	NR	NR
2512	METHANOL	NR	27,773	NR
2517	m-XYLENE	NR	44,509	NR
2519	XYLENE	NR	26,000	NR
2521	GLYCOL ETHERS	65,991	NR	NR
2600	SODIUM SULFATE (SOLUTION)	1,628,347	NR	NR
2600	SODIUM HYDROXIDE	9,163,862	1,125,300	NR
2610	SODIUM SULFATE (SOLUTION)	60,655,582	NR	NR
2611	SODIUM SULFATE (SOLUTION)	32,820,000	NR	NR
2611	ALUMINUM OXIDE	2,950,000	NR	NR
2611	SODIUM SULFATE (SOLUTION)	16,992,200	NR	NR
2621	SULFURIC ACID	250	58,600	NR
2621	SODIUM HYDROXIDE	250	42,338	NR
2641	SODIUM SULFATE (SOLUTION)	24,015,000	NR	NR
2641	ALUMINUM OXIDE	16,930,000	NR	NR
2641	SODIUM HYDROXIDE	1,500,000	679,800	NR
2641	METHANOL	29,877	38,753	34,943
2657	METHYL ETHYL KETONE (MEK)	49,050	50,000	NR
2657	DI-N-BUTYL PHTHALATE	NR	NR	35,387
2657	ACETONE	28,800	28,800	32,720
2741	ISOPROPYL ALCOHOL	73,299	NR	NR
2750	GLYCOL ETHERS	NR	NR	28,133
2819	SODIUM HYDROXIDE	46,000	44,000	NR
2819	SODIUM SULFATE (SOLUTION)	102,943	NR	NR
2819	SODIUM SULFATE (SOLUTION)	855,130	NR	NR
2819	ARSENIC COMPOUNDS	NR	550,000	NR
2819	SODIUM SULFATE (SOLUTION)	3,176,200	NR	NR
2819	ALUMINUM OXIDE	NR	385,096	NR
2821	SODIUM SULFATE (SOLUTION)	206,000	NR	NR
2821	FORMALDEHYDE	NR	64,000	NR
2824	SODIUM SULFATE (SOLUTION)	1,187,245	NR	NR
2824	TEREPHTHALIC ACID	47,680	3,103,540	78,650
2824	TEREPHTHALIC ACID	172,000	190,000	170,750
2824	ALUMINUM OXIDE	NR	68,000	NR

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:

Page	SIC	Chemical	Total Quantity (lbs) Reported in:		
			1987	1988	1989
7					
	2833	SODIUM SULFATE (SOLUTION)	280,000	NR	NR
	2833	METHYL TERT-BUTYL ETHER	56,750	NR	NR
	2833	METHANOL	49,000	49,000	NR
	2834	SODIUM SULFATE (SOLUTION)	369,000	NR	NR
	2834	FREON 113	27,800	52,700	66,400
	2834	SODIUM SULFATE (SOLUTION)	495,730	NR	NR
	2834	ISOPROPYL ALCOHOL	81,214	NR	NR
	2834	AMMONIUM SULFATE (SOLUTION)	359,000	560,210	489,810
	2834	n-BUTYL ALCOHOL	NR	29,094	NR
	2834	SODIUM SULFATE (SOLUTION)	124,800	NR	NR
	2843	SODIUM SULFATE (SOLUTION)	419,000	NR	NR
	2844	SODIUM HYDROXIDE	NR	71,525	NR
	2844	SULFURIC ACID	NR	25,517	NR
	2851	METHYL ETHYL KETONE (MEK)	152,702	97,100	NR
	2851	ACETONE	107,500	69,400	NR
	2851	TOLUENE	97,600	63,000	NR
	2851	XYLENE	33,800	51,700	NR
	2851	TOLUENE	50,366	20,847	41,658
	2861	SODIUM SULFATE (SOLUTION)	7,300,000	NR	NR
	2865	SODIUM SULFATE (SOLUTION)	3,814,250	NR	NR
	2869	TEREPHTHALIC ACID	793,750	379,469	517,910
	2869	SODIUM SULFATE (SOLUTION)	2,055,470	NR	NR
	2869	AMMONIUM SULFATE (SOLUTION)	NR	121,533	59,298
	2869	ALUMINUM OXIDE	NR	83,000	NR
	2869	SODIUM SULFATE (SOLUTION)	137,500	NR	NR
	2874	SODIUM SULFATE (SOLUTION)	3,165,000	NR	NR
	2892	TETRACHLOROETHYLENE	NR	411,081	NR
	2892	CYCLOHEXANE	192,000	105,278	NR
	2892	METHANOL	40,850	52,205	NR
	2893	CRESOL(S)	67,621	NR	NR
	2952	ALUMINUM OXIDE	87,201	32,080	NR
	3052	TOLUENE	1,651,600	1,224,500	377,237
	3052	SODIUM SULFATE (SOLUTION)	230,000	NR	NR
	3079	TOLUENE	23,493	28,637	NR
	3079	ACETONE	25,734	23,191	27,471

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
 Page 8 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1990
3079	SODIUM SULFATE (SOLUTION)	1,400,000	NR	NR
3079	METHYLENE CHLORIDE	84,000	82,200	NR
3079	METHYLENE CHLORIDE	NR	15,694	32,620
3079	ISOPROPYL ALCOHOL	NR	NR	37,184
3079	ACETONE	12,528	173,922	NR
3086	1,1,1-TRICHLOROETHANE	NR	63,576	NR
3111	XYLENE	54,337	59,392	NR
3111	m-XYLENE	NR	NR	56,385
3111	n-BUTYL ALCOHOL	22,053	22,950	51,945
3231	SODIUM HYDROXIDE	166,000	90,000	NR
3245	ALUMINUM OXIDE	NR	2,198	32,376
3264	1,1,1-TRICHLOROETHANE	86,200	48,231	NR
3264	ALUMINUM OXIDE	147,400	60,000	60,750
329	ASBESTOS	140,500	NR	NR
3295	SODIUM HYDROXIDE	160,000	NR	NR
3295	SULFURIC ACID	130,000	NR	NR
3295	HYDROCHLORIC ACID	120,000	NR	NR
3296	ALUMINUM OXIDE	NR	2,120,985	1,990,190
3297	ALUMINUM OXIDE	73,751	84,000	NR
3312	ALUMINUM OXIDE	1,350	305,655	266,070
3351	ALUMINUM OXIDE	NR	NR	122,750
3353	ALUMINUM OXIDE	163,799	182,918	NR
3353	ALUMINUM OXIDE	836,050	797,166	NR
3353	FREON 113	NR	43,975	NR
3354	SODIUM HYDROXIDE	5	148,000	NR
3356	SODIUM SULFATE (SOLUTION)	170,000	NR	NR
3356	POLYCHLORINATED BIPHENYLS (P	7,400	109,974	NR
3356	ALUMINUM OXIDE	180,620	513,640	NR
3361	ALUMINUM (FUME OR DUST)	NR	52	30,000
3361	ALUMINUM (FUME OR DUST)	180,000	180,000	NR
3362	COPPER	580	122,000	123,500
3362	1,1,1-TRICHLOROETHANE	93,250	76,000	90,750
3362	PHENOL	80,086	74,081	74,829

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1989	1990
3411	CYCLOHEXANE	79,000	55,800	NR
3412	SODIUM HYDROXIDE	58,500	NR	NR
3423	SODIUM HYDROXIDE	352,000	NR	NR
3429	SODIUM SULFATE (SOLUTION)	110,000	NR	NR
3429	TETRACHLOROETHYLENE	38,500	37,750	NR
3429	CYANIDE COMPOUNDS	800	44,050	NR
3429	COPPER	NR	834,852	NR
3429	SODIUM SULFATE (SOLUTION)	205,900	NR	NR
3429	CHROMIUM	NR	115,940	NR
3429	ZINC	NR	106,399	NR
3429	TETRACHLOROETHYLENE	138,300	59,772	NR
3429	BARIUM	252,340	NR	NR
3429	ALUMINUM OXIDE	NR	68,530	NR
3441	MANGANESE AND COMPOUNDS	NR	NR	NR
3441	MANGANESE AND COMPOUNDS	NR	331,344	NR
3471	SODIUM SULFATE (SOLUTION)	57,000	54,624	NR
3471	SODIUM HYDROXIDE	48,020	NR	NR
3479	SODIUM HYDROXIDE	115,120	NR	NR
3479	SODIUM SULFATE (SOLUTION)	115,000	NR	NR
3479	ZINC	14,750	107,900	NR
3479	ALUMINUM OXIDE	29,920	34,614	NR
3494	TRICHLOROETHYLENE	33,058	28,174	NR
3499	SODIUM HYDROXIDE	21,875	29,795	NR
3499	NAPHTHALENE	89,346	NR	NR
3519	ALUMINUM (FUME OR DUST)	224,800	153,150	NR
3519	ALUMINUM (FUME OR DUST)	NR	48,000	NR
3531	DIETHANOLAMINE	NR	NR	NR
3542	1,1,1-TRICHLOROETHANE	119,006	74,391	NR
3546	ALUMINUM (FUME OR DUST)	NR	197,725	NR
3546	TOLUENE	56,298	NR	NR
3546	XYLENE	51,750	NR	NR
3552	SODIUM HYDROXIDE	91,440	NR	NR
3562	ALUMINUM OXIDE	NR	NR	NR
3562	ALUMINUM OXIDE	180,000	NR	NR
3585	1,1,1-TRICHLOROETHANE	322,720	308,112	NR

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
 Page 10 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1989
3599	ALUMINUM OXIDE	78,000	38,000	NR
3621	XYLENE	NR	NR	26,126
3621	ALUMINUM OXIDE	NR	27,900	NR
3622	SODIUM HYDROXIDE	26,304	39,839	NR
3622	FREON 113	35,312	32,604	NR
3624	COPPER	92,418	121,620	40,500
3624	METHANOL	NR	NR	27,250
3634	METHYL ETHYL KETONE (MEK)	54,224	NR	NR
3634	SODIUM HYDROXIDE	13,961	38,725	NR
3645	1,1,1-TRICHLOROETHANE	45,600	15,015	26,697
3661	TETRACHLOROETHYLENE	59,000	NR	NR
3661	FREON 113	53,200	87,700	80,800
3661	TETRACHLOROETHYLENE	318,300	341,000	80,200
3661	ETHYLENE GLYCOL MONOETHYL ET	38,200	37,300	NR
3674	1,1,1-TRICHLOROETHANE	127,398	273,194	107,063
3674	HYDROCHLORIC ACID	86,254	67,913	NR
3674	SODIUM HYDROXIDE	148,755	31,336	NR
3675	BARIUM	101,078	159,019	NR
3675	FREON 113	86,791	77,562	35,000
3675	ALUMINUM OXIDE	183,000	300,000	NR
3675	ALUMINUM OXIDE	NR	NR	71,541
3676	METHOXYCHLOR	NR	159,800	NR
3676	METHYLENE CHLORIDE	47,000	45,300	26,750
3678	SODIUM SULFATE (SOLUTION)	98,000	NR	NR
3691	SODIUM SULFATE (SOLUTION)	163,000	NR	NR
3695	METHYLENE CHLORIDE	NR	13,167	26,986
3700	SODIUM SULFATE (SOLUTION)	183,251	NR	NR
3700	TOLUENE	432,092	91,272	76,148
3713	TOLUENE	3,900	25,800	30,950
3714	1,1,1-TRICHLOROETHANE	422,300	NR	NR
3714	SODIUM HYDROXIDE	183,750	433,630	NR
3714	TETRACHLOROETHYLENE	52,238	NR	NR
3714	SODIUM HYDROXIDE	150,500	228,000	NR
3714	SULFURIC ACID	92,140	90,200	NR

NR = Not Reported

07/22/93 TRI Facilities that Stopped Reporting After Reporting Significant Quantities:
 Page 11 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1989	1990
3714	SODIUM HYDROXIDE	83,640	83,640	NR
3714	ISOPROPYL ALCOHOL	NR	NR	40,200
3714	STYRENE	96,970	50,299	NR
3714	ACETONE	83,400	39,200	NR
3714	ACETONE	22,600	444,400	NR
3714	STYRENE	23,710	55,101	NR
3714	TETRACHLOROETHYLENE	95,000	NR	NR
3714	METHYLENE CHLORIDE	12,900	37,651	71,550
3732	DIMETHYL PHTHALATE	60,808	NR	NR
3732	DIMETHYL PHTHALATE	134,136	NR	NR
3732	STYRENE	72,000	32,736	26,004
3732	DIMETHYL PHTHALATE	78,693	NR	NR
3732	ACETONE	66,145	37,610	30,040
3732	STYRENE	72,133	NR	NR
3732	ACETONE	71,840	NR	NR
3843	METHANOL	126,911	NR	NR
3931	TRICHLOROETHYLENE	266,448	NR	NR
3931	1,1,1-TRICHLOROETHANE	55,308	78,889	NR
3931	COPPER	32,641	41,852	NR
3999	ACETONE	51,700	24,600	26,572
3999	COPPER	275,000	NR	NR
4930	ALUMINUM OXIDE	5,140,000	5,196,000	NR
7538	SODIUM HYDROXIDE	NR	80,783	NR
8098	SODIUM SULFATE (SOLUTION)	501,500	NR	NR
8098	SODIUM HYDROXIDE	101,500	NR	NR

NR = Not Reported

07/22/93 TRI Facilities with significant Quantity Discrepancies Between Reporting Years: 1987 to 1990

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SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1990
2011	AMMONIA	NR	NR	6,300
2015	AMMONIA	NR	12,741	765
2015	CHLORINE	NR	18,750	0
2086	AMMONIA	NR	18,781	10
2086	PHOSPHORIC ACID	NR	10,660	45
2111	AMMONIA	551,891	476,710	255,905
2111	1,1,1-TRICHLOROETHANE	27,040	20,450	22,561
2221	METHANOL	15,000	440,000	355,474
2221	SULFURIC ACID	280,000	350,000	16,500
2221	1,1,1-TRICHLOROETHANE	36,000	41,000	21,000
2251	BUTYL BENZYL PHTHALATE	NR	NR	17
2253	BIPHENYL	15,883	15,883	540
2253	CHLORINE	73,000	73,000	2,700
2253	XYLENE	97,744	97,744	2,160
2257	XYLENE	5,706	469	NR
2258	SULFURIC ACID	NR	NR	48,183
2261	AMMONIA	500	21,473	22,043
2261	AMMONIA	NR	18,085	14,253
2262	XYLENE	10,876	117,995	174,784
2262	TETRACHLOROETHYLENE	NR	1,300	970
2262	AMMONIA	NR	NR	750
2269	METHANOL	NR	NR	13,100
2282	SULFURIC ACID	12,100	20,564	12,000
2282	METHANOL	36,108	26,400	10,400
2293	1,1,1-TRICHLOROETHANE	NR	NR	32,267
2300	SODIUM HYDROXIDE	189,000	178	NR
2321	PHOSPHORIC ACID	NR	NR	46,640
2389	ACETONE	NR	NR	16,020
2434	TOLUENE	13,154	154,544	130,750
2491	ARSENIC COMPOUNDS	250	86	10,750
2491	CHROMIUM COMPOUNDS	NR	101	10,750
2491	COPPER COMPOUNDS	250	58	10,750
2491	NAPHTHALENE	22,724	2,470	807
				131,029
				22,710
				10,000
				10,000
				401

NR = Not Reported

07/22/93 TRI Facilities with Significant Quantity Discrepancies Between Reporting Years: 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1990
2491	ANTHRACENE	4	52	NR
2491	CHROMIUM COMPOUNDS	NR	30,000	11,978
2491	COPPER COMPOUNDS	NR	1,900	9,209
2491	NAPHTHALENE	1,152	10,302	NR
2491	PENTACHLOROPHENOL	1	28	31,830
2491	CHROMIUM COMPOUNDS	1,187,625	1,864	0
2491	COPPER COMPOUNDS	7,036	1,065	0
2491	COPPER COMPOUNDS	NR	3,351	220
2492	FORMALDEHYDE	97,690	22,769	263,100
2493	FORMALDEHYDE	NR	NR	78,848
2511	METHYL ETHYL KETONE (MEK)	NR	3,585	NR
2511	n-BUTYL ALCOHOL	67,365	6,494	NR
2511	METHYL ETHYL KETONE (MEK)	NR	19,209	31,664
2511	n-BUTYL ALCOHOL	32,872	35,070	28,215
2511	XYLENE	14,750	16,800	19,550
2511	ACETONE	NR	NR	12,100
2511	n-BUTYL ALCOHOL	14,787	18,031	21,490
2511	METHYL ETHYL KETONE (MEK)	17,978	20,065	24,637
2511	METHANOL	55,932	103,008	55,588
2511	TOLUENE	35,930	46,169	44,976
2511	XYLENE	12,705	14,792	16,857
2511	ACETONE	NR	17,059	11,245
2511	n-BUTYL ALCOHOL	NR	NR	15,720
2511	TOLUENE	52,560	63,261	54,000
2511	XYLENE	17,734	20,789	14,746
2511	ACETONE	17,020	46,907	42,545
2511	BIS (2-ETHYLHEXYL) PHTHALATE	12,617	13,528	15,480
2511	GLYCOL ETHERS	36,416	46,070	48,011
2511	METHYL ETHYL KETONE (MEK)	NR	49,759	42,785
2511	METHANOL	155,016	166,953	139,103
2511	TOLUENE	85,423	98,350	91,000
2511	XYLENE	35,667	47,926	48,020
2600	HYDROCHLORIC ACID	71,599	520	22,000
2611	HYDROCHLORIC ACID	37,000	1,400	1,300
2611	AMMONIA	6,050	620	725
2641	AMMONIA	490,000	8,301	340,280
2641	CATECHOL	NR	NR	17,600
2657	TOLUENE	153,900	12,300	30,300
2672	FORMALDEHYDE	9,300	69,011	1,926

NR = Not Reported

TRI Facilities With Significant Quantity Discrepancies Between Reporting Years: 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1989	1990
2752	TETRACHLOROETHYLENE	NR	38 *	13,211
2819	METHANOL	8,340	4,500	14,850
2819	AMMONIA	NR	783	10,867
2819	HYDROCHLORIC ACID	13,950	750	1,000
2819	NITRIC ACID	2,000	750	1,000
2819	SULFURIC ACID	14,500	67	2
2821	FORMALDEHYDE	20,400	239,392	135,514
2821	METHANOL	NR	118	3,819
2821	BARIUM COMPOUNDS	1,250	11,750	15,255
2821	ETHYLENE GLYCOL	24,400	15,262	500
2824	PHOSPHORIC ACID	25,500	1,500	500
2824	n-BUTYL ALCOHOL	80	10,120	8,320
2824	2-METHOXYETHANOL	2,200	173,690	35,223
2824	PHTHALIC ANHYDRIDE	NR	21,283	2,214
2824	METHYLENE CHLORIDE	3,058	99,350	25,405
2824	TOLUENE	2,978	427,700	188,150
2833	PYRIDINE	418,950	15,800	10,110
2834	ETHYLENE GLYCOL	NR	76,000	14
2834	AMMONIA	168,959	13,160	175,600
2843	1,1,1-TRICHLOROETHANE	500	6,000	1,880
2843	TETRACHLOROETHYLENE	5,800	8,025	21
2843	AMMONIA	NR	505	7,419
2843	SULFURIC ACID	31,014	33	37
2851	ACETONE	3,549	302,725	1,000
2851	METHYL ETHYL KETONE (MEK)	25,146	59,713	1,450
2851	METHANOL	6,100	22,348	500
2851	TOLUENE	88,292	181,577	3,350
2851	TOLUENE	92,778	3,400	2,750
2851	XYLENE	25,809	2,350	1,250
2851	TOLUENE	NR	18,758	0
2869	DIMETHYL PHTHALATE	59	5,351	3,261
2869	METHANOL	284,425	3,167	NR
2869	XYLENE	276	44,449	5,540
2869	ETHYLENE DICHLORIDE	17,335	400,474	412,820

NR = Not Reported

07/22/93 TRI Facilities With Significant Quantity Discrepancies Between Reporting Years: 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1988	1990
2869	XYLENE	21,583	954	207
2869	n-BUTYL ALCOHOL	233	22,868	39,324
2869	DIMETHYL PHTHALATE	1,700	3,082	48,890
2869	DI-N-BUTYL PHTHALATE	8,200	6,886	401
2869	METHANOL	1,250	826,605	551,086
2873	AMMONIUM NITRATE (SOLUTION)	1,000	270	29,080
2875	AMMONIA	250	6,042	605
2891	FORMALDEHYDE	6,469	195	5
2893	METHANOL	14,100	1,215	NR
2893	TOLUENE	83,165	5,525	3,558
2893	METHANOL	1,000	250	NR
2893	METHYL ETHYL KETONE (MEK)	NR	4,014	147,135
2893	METHYL ETHYL KETONE (MEK)	4,200	29,115	2,858
2952	ZINC COMPOUNDS	175,279	2,693	NR
3011	ZINC COMPOUNDS	1,630	14,460	750
3052	ZINC COMPOUNDS	10,150	40,839	3,500
3069	ACETONE	NR	NR	499,801
3078	ACETONE	NR	NR	0
3078	STYRENE	NR	4,136	0
3079	TOLUENE DIISOCYANATE	32,454	32,107	250
3079	1,1,1-TRICHLOROETHANE	106,919	68,415	4,950
3079	METHYLENE CHLORIDE	NR	23,912	0
3079	METHANOL	NR	NR	0
3079	ACETONITRILE	26,400	22,249	30
3079	HYDROCHLORIC ACID	200	79	37,463
3079	METHYLENE CHLORIDE	40,200	37,000	367,660
3079	METHYL ETHYL KETONE (MEK)	24,350	51,689	0
3081	METHYLENE CHLORIDE	251,500	237,500	NR
3089	LEAD	NR	6,145	0
3143	METHYL ETHYL KETONE (MEK)	86	111	38,300
3245	ZINC COMPOUNDS	8,250	3,102	56,593
329	PHENOL	1,250	31,000	71,250
3291	TOLUENE	200,000	186,376	NR

NR = Not Reported

TRI Facilities with Significant Quantity Discrepancies Between Reporting Years: 1987 to 1990

SIC	Chemical	Total Quantity (lbs) Reported in:		
		1987	1989	1990
3291	XYLENE	NR	47,502	1,000
3312	CHROMIUM COMPOUNDS	500	6,560	31,659
3312	MANGANESE COMPOUNDS	6,300	107,570	819,848
3351	COPPER COMPOUNDS	467,138	563,234	NR
3351	ZINC COMPOUNDS	50,052	47,162	NR
3353	METHANOL	NR	931	54,556
3354	NITRIC ACID	4	4	14,750
3354	SULFURIC ACID	5	4	12,750
3354	XYLENE	NR	500	16,092
3356	HYDROFLUORIC ACID	32,300	44,300	2,100
3356	NITRIC ACID	410,500	610,000	301,500
3356	CHROMIUM	22,497	16,411	12,411
3357	COPPER	250	5,000	6,550
3423	HYDROCHLORIC ACID	230,055	230,055	2,125
3423	SULFURIC ACID	163,100	155,100	50
3429	ZINC COMPOUNDS	NR	775	8,764
3452	HYDROCHLORIC ACID	NR	NR	750
3471	COPPER	97,218	8	51
3471	SULFURIC ACID	NR	14,632	1,500
3471	SULFURIC ACID	65,354	36,283	18,513
3479	TOLUENE	3,950	533	31,306
3499	n-BUTYL ALCOHOL	NR	NR	3,000
3499	GLYCOL ETHERS	NR	NR	6,551
3542	MANGANESE COMPOUNDS	34	24	7,012
3546	COPPER	563,750	523,100	754
3546	STYRENE	118,200	11,770	7,460
3546	1,1,1-TRICHLOROETHANE	161,300	209,050	18,540
3553	ETHYLENE GLYCOL	24,500	30,000	33,500
3573	AMMONIA	1,750	15,000	1,500
3586	XYLENE	16,300	1,600	NR
3621	FREON 113	NR	34,992	46,117
3621	NICKEL COMPOUNDS	NR	NR	3,750
3622	ALUMINUM OXIDE	500	10,784	9,828
3622	1,1,1-TRICHLOROETHANE	12,000	10,800	1,200

NR = Not Reported

SIC	Chemical	Total Quantity (lbs) Reported In:		
		1987	1988	1989
3624	ACETONE	81,000	72,000	96,000
3634	PHENOL	777	79,587	112,743
3646	ETHYLENE GLYCOL	NR	NR	83,000
3674	METHANOL	750	1,565	19,980
3679	COPPER	NR	14	4,102
3679	FREON 113	1,850	26,859	68,194
3679	NICKEL	NR	22	9,710
3679	1,1,1-TRICHLOROETHANE	475	443	5,361
3692	TRICHLOROETHYLENE	4,529	127,101	140,803
3692	1,1,1-TRICHLOROETHANE	1,400	13,500	NR
3713	n-BUTYL ALCOHOL	105,700	2,865	124,200
3713	GLYCOL ETHERS	NR	1,100	110,000
3713	XYLENE	500	14,500	NR
3714	TETRACHLOROETHYLENE	NR	105,247	304
3714	METHANOL	NR	NR	30,242
3714	ETHYLENE GLYCOL	NR	16,763	750
3732	STYRENE	222,750	20,070	5,060
3732	TOLUENE	43	12,612	6,591
3825	FREON 113	28,000	27,000	36,000
3843	ETHYLENE OXIDE	15,862	17,604	16,950
3843	ACETONE	15,319	11,797	3,257
3942	ZINC	12,938	17,076	13,990
3963	ACETONE	NR	45,000	2,400
3963	ALUMINUM OXIDE	NR	16,000	NR
3963	METHYLENE CHLORIDE	NR	53,100	5,250
3999	STYRENE	136,963	147,200	11,390
3999	COPPER COMPOUNDS	NR	3,000	2,250
3999	METHYL ETHYL KETONE (MEK)	6,050	75,750	32,000
3999	NICKEL COMPOUNDS	4,403	7,500	2,250
3999	METHYLENE CHLORIDE	67,250	5,307	5,114
3999	ETHYLBENZENE	NR	10,010	13,079
3999	TOLUENE	NR	35,751	30,977
3999	XYLENE	NR	35,751	44,747

NR = Not Reported

