Pollution Prevention through Inventory and Analysis of Toxic Spill Information

Final Report

for

Virginia Department of Environmental Quality
State Water Control Board

(Section 604(b) of the Clean Water Act)

by

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Preface to the Final Report

This report of the study Pollution Prevention through Inventory and Analysis of Toxic Spill Information was previously prepared in draft form for comment by the Virginia Department of Environmental Quality. Those comments were received and incorporated into this final report. In addition, some elements of the work were extended.

Significant changes to the draft report include further analysis of spill quantities reported by pollutant and mode, further analysis of size distribution of spills, comparison (to the extent possible) of spilled quantities of pollutants with annual loadings reported in the Chesapeake Bay Program's Toxics Loading Inventory, and suggestions for improved data collection.

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I. Introduction

Pollution prevention is an issue of concern expressed by the Virginia State Water Control Board in its pollution Prevention Policy Statement and the Chesapeake Bay Program in its Toxics Reduction Strategy.

The commitment to pollution prevention is evident at various levels of government. Nationally, the U.S. EPA compiles a Toxics Release Inventory, and regionally, the Chesapeake Bay Program is developing a Toxics Loading Inventory. To date, these inventories have focused on regulated releases and do not generally include information concerning spills of pollutants. An objective of this study is to complement these inventories with unregulated quantities of pollutants released to the environment by spills.

Pollution prevention may be effected by controls on the manufacture, transportation, use and disposal of toxic substances. Because spills and accidental discharges of toxic materials contribute to environmental pollution, any reduction in their occurrence would complement other efforts in pollution prevention. The other objective of this study is to make recommendations that would lead to reductions in the numbers and quantities of spills.

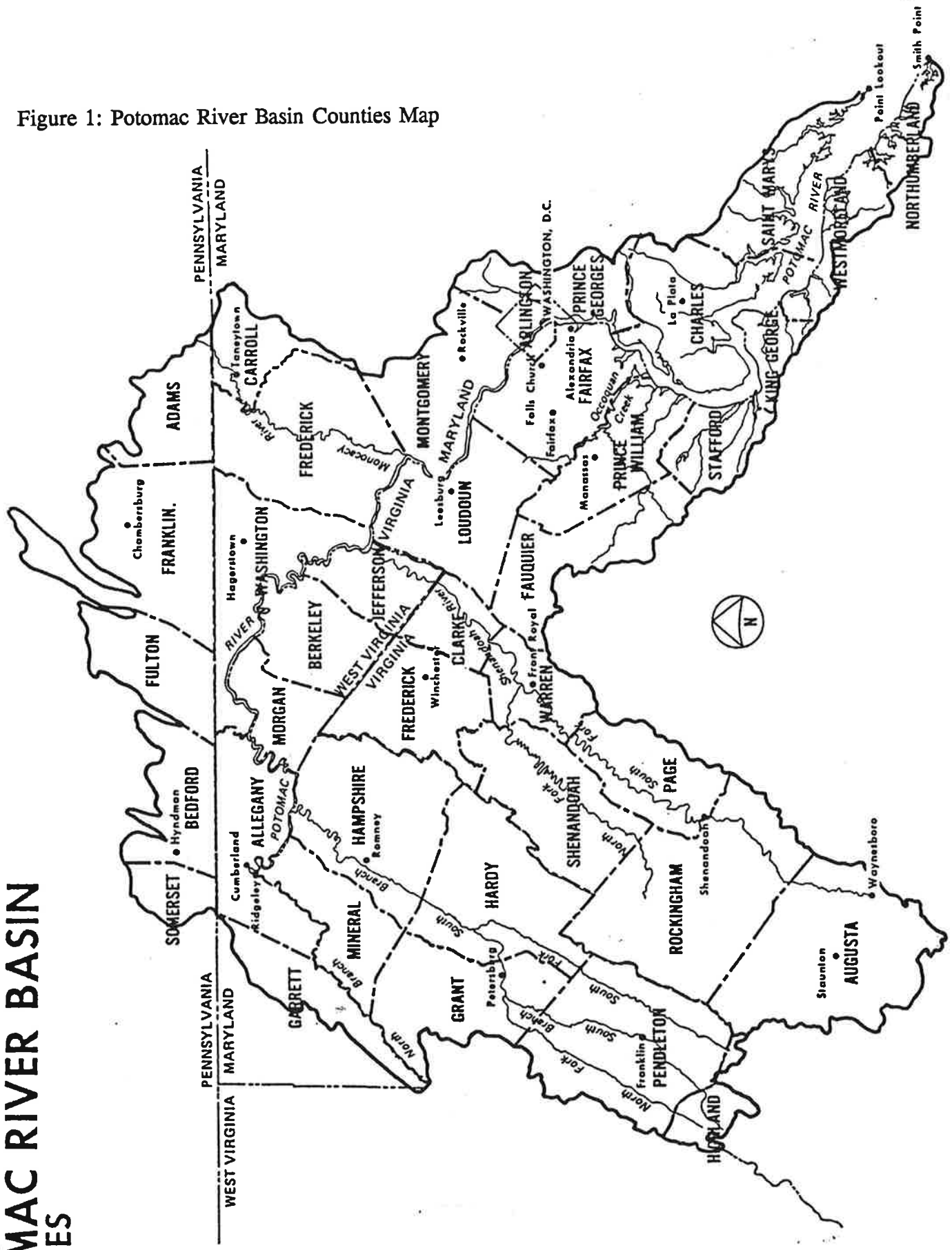
Data describing spill incidents were analyzed for quantity spilled; and by location, mode (type of container), pollutant and trend, for information which would lead to the formation of recommendations for the prevention or reduction of spills. Although the available spill data fell short of expectations with regard to specificity, the results of the analyses provide insight to the overall distribution of spills. Further, the analyses have pointed out the strengths and weaknesses of the way in which data are collected.

This report reflects the flow of tasks undertaken to conduct the study. Data acquisition and preparation for analysis was an early task which involved requests from four agencies. The analysis of data was conducted in several steps. Cross-tabulations of number of incidents were developed among location, mode and pollutant. Location information was sub-classified according to counties and regions of the Department of Environmental Quality within the Potomac River basin. Two sub-sets of the data were also examined for number of spill incidents: those records in which quantity spilled was reported, and those with a reported quantity spilled directly to a water body. Data on quantity spilled was relatively sparse, with different spills of the same pollutants being expressed in different units (eg. pounds in one spill, gallons in another). Some distributional analysis was conducted, but there was little confidence in performing much more analysis on the quantities of pollutants spilled. It was decided that there were insufficient data for the spills reported to make any meaningful contribution to the inventories of loadings to the basin. Trends in the numbers of spill incidents were examined by calendar quarter and by year; and cross-tabulated by DEQ Region. The concluding section presents recommendations for pollution prevention and data collection, a discussion of

with quantities of spilled substances, and an appendix of data.

This study was conducted with the assistance of funds made available by the Virginia Department of Environmental Quality under Section 604(b) of the Clean Water Act.

Figure 1: Potomac River Basin Counties Map



II. Data Preparation

Data Sources

Data concerning pollutant spills in the Commonwealth of Virginia were identified at several national and state agencies. Data were requested and received from:

1. National Emergency Response Center operated by the U.S. Coast Guard,
2. U.S. Environmental Protection Agency, Region III Office,
3. Virginia Department of Environmental Quality, and
4. Virginia Department of Emergency Services.

Data Screening

In response to initial data requests, each of these four agencies returned data sets containing incident reports describing accidental spills and unregulated releases in Virginia. The amount of information collected, report format, as well as computer format differed markedly among the four agencies. The following table displays the initial parameter listing, time frame and format. It should be noted that the listing of a parameter category does not imply that these fields were completed on all reports. In many cases fields were left blank and in others information could be completed using text and comment fields.

Figure 2: Data Available from Original Data Sets

	Data Source			
Parameter	CG	DEQ	DES	EPA
Format	paper	Paradox	Dbase	Ascii
Time Frame	85-93	87-93	87-93	87-92
Date	y	y	y	y
Time	y	y	some	no
Location	county	county	county	county
Pollutant	y	y	y	code
Q Spilled	y	y	text	y
Units	y	y	y	y
Q to Water	y	y	y/n	y
Units	y	y	n	y
Waterbody	y	y	y	y
Mode	y	text	y	text
Response	y	y	n	y

After reviewing all available information for parameters these data had in common, a second request was made for additional and/or reformatted information to compile a best set of common information for analysis.

Once all data were obtained, the next task was to convert each of the individual data sets to a common format. This was done in several stages. Due to the size of the original data bases, each of them was screened individually before they were combined for analysis. Data were restricted first to the time frame 1988-1992. Next, data were restricted from state-wide to the counties and incorporated municipalities lying within the Potomac basin. This initial time and locational screening reduced the data sets from about 23,000 entries to approximately one fourth of this number.

After the initial size reduction, data were reformatted to include only the target set of common parameters. Again, this was done in several steps. Because the data were provided in four different program languages, the spreadsheet program Quattro Pro 5.0 was selected for analysis. This program offers a range of analytical tools as well as the ability to import and reformat data in a variety of formats. The four data bases were brought into a common spreadsheet. Many minor variations among data sets such as time and date format, county codes, and abbreviations were changed for consistency. Individual incident entries which contained insufficient data for analysis were removed to further restrict the data set. Entries deleted on this basis included incident reports of odors only, those filed for inspections where nothing was found, fish kills ascribed to natural causes as well as entries that were so incomplete as to offer no information, i.e. some combination of missing date, location, chemical, quantity and mode descriptors. After this screening the four data sets were reduced to fewer than 5,000 entries.

Each data set was rearranged to resemble the final parameter set with the exception of the 'mode,' 'pollutant,' and 'response' parameters. Data for these fields was available only in textual information. Because these three parameters would require translation of text fields into commonly defined categories, any further data reduction that could be accomplished before line by line edit and conversion was completed. To do this, the four individual data sets were combined into a single data set. Records in the combined data set were ranked by date and other parameters in order to facilitate the elimination of duplicate reports of the same incidents.

Parameter Definition from Text Fields

To finalize the reformatting of the data, information from the text, or comment fields was used to identify pollutant type, incident mode, and response.

Pollutant

In three of the four data sets, pollutants were specified by chemical. In the fourth, EPA data were categorized more broadly, most notably by the grouping of all petroleum products.

Because of the mixed reporting format of the data, and the sheer number of individual pollutants in the data set, it was decided that pollutants should be categorized for meaningful analysis. While more specific pollutant information, where available, was retained in a sub-category, a set of twelve broad pollutant categories was identified:

acids	PCBs
ammonia	pesticides
antifreeze	petroleum products
asbestos	sewage
chlorine	toxics of concern
miscellaneous chemicals	unknown

Some of these categories were defined because of the difficulty of differentiating pollutants within them, such as petroleum products for the reason discussed above. Where data were already partially categorized, all data of that type were grouped under a broader category such as in the case of petroleum products. Additionally, miscellaneous chemicals is a broad category defined to include chemicals, whose occurrence in the data set is so infrequent as to provide little specific information beyond gross trend analysis of numbers of accidents and location.

Toxics of Concern is a category motivated by the work of the Chesapeake Bay Program. The CBP Toxics Subcommittee has identified a number of pollutants which, because of their likely occurrence in the Chesapeake watershed and detrimental effects on the Bay's living resources, have given rise to cause for concern. The CBP Toxics of Concern are:

Atrazine	Lead
Cadmium	Mercury
Chlordane	Polychlorinated Biphenyls(PCBs)
Chromium	Polynuclear Aromatic Hydrocarbons(PAHs)
Copper	Tributyltin(TBT)

This category, as used in the study, does not include pesticides or PCBs.

Other groups were separated into their own categories, again because of the nature of the data. Specifically, pesticides and PCBs could easily be grouped within toxics. However, during data screening it appeared obvious that there would be an extremely high correlation between the occurrence of PCBs and transformer and capacitor accidents. Similarly, pesticides appear in connection with transfer accidents and equipment failure. Hence, where data were sufficiently detailed to provide additional information or indicate trends, those data were maintained as distinct categories.

Mode

One of the main objectives of the analysis is to determine whether there are outstanding commonalities among accidental discharges. In order to target this objective, as well as to

convert the data into a more uniform format, it was necessary to define a set of categories describing the mode of discharge for each incident.

Again, the consistency in reporting of mode information varied widely both within and among data sets. As was the case in categorizing pollutants, some data were already available on mode of discharge. In the bulk of instances, however, mode data were only available in the text or comment fields attached to each incident report. After reviewing mode categories already used in some data, and available narrative information, the following set of mode categories was selected:

dumping	pipeline
dust control	railway
fixed container	transfer
highway	transformer/capacitor accidents
marine	unknown

Because a number of assumptions were made in categorizing data, a more complete definition and statement of assumptions for each of these categories follows.

Dumping: all manner of intentional discharge of pollutants. This includes illegal disposal as well as acts of vandalism and abandonment. Runoff from fixed facilities was also included in this category if incident reports indicated sloppy housekeeping or irresponsible handling of pollutants as the source of discharge.

Dust Control: spraying of oil for dust control around construction sites. The spraying of oil for dust control could easily have been integrated into the dumping category. As in the case of maintaining a separate category among pollutants for pcb incidents, dust control as a mode was listed with sufficient frequency to warrant its own category for analysis.

Fixed Container: malfunction of storage equipment, includes discharge from all fixed containers, feeder line leaks, fixed drums, underground storage tanks, etc. In the case where some data were already categorized by mode but also had a secondary mode listed as truck or vehicle, these discharges were assumed to have occurred during transfer to or from the vehicle and therefore categorized as transfer incidents. Similarly, if the spill was listed as having occurred from a fixed facility during its removal or replacement, it was again listed as a transfer incident because the discharge was directly related to its removal, not a leak in original equipment.

Highway: all incidents occurring as a result of highway accidents. These were further categorized where data were available to determine whether the spill was from the cargo or the vehicle's own fuel supplies; h/cargo and h/vehicle, respectively. A third sub-category was created, h/equipment, to capture spills which occurred due to equipment failure on the transport vehicle. Thus cargo spills which were due to a bad clamp, valve, or hose rupture would appear as h/equipment incidents, their source being an equipment maintenance issue, rather than

accident related discharge. Incidents listed simply as highway were those reported with insufficient additional information to make a more specific designation.

Marine: incidents occurring on the water. An attempt was made to further subdivide these incidents into vehicle and cargo categories, but insufficient information was available. Hence, this category includes both cargo loss as well as fuel discharge from damaged vessels.

Pipeline: leaks from long distance transport pipelines only. Feeder lines, within fixed facilities, are included in the fixed container mode category.

Railway: incidents occurring on rail lines. Initially, an attempt was made to further subdivide these incidents into cargo and vehicle incidents. However, because the entire category includes so few entries, all were lumped under rail for analysis.

Transfer: spills occurring during transfer between modes. As discussed in the definition of fixed container above, transfers include spills due to overfills of fixed tanks or vehicles, as well as spills occurring during replacement or removal of fixed containers, because transfer of stored material is the source of the incident.

Transformer and Capacitor: discharge of material resulting from equipment malfunction, vandalism, or improper storage. This category was maintained as a separate mode because of the frequency of occurrence and high correlation with the discharge of PCBs.

Unknown: includes spills discovered with no obvious source and spills reported with insufficient information to allow categorization into any of the above described modes.

Response

Prior to reviewing the data, it was hoped that there would be some quantitative information available on pollutant recovery during response and clean-up activities. After reviewing the data it became obvious that this level of detail is simply not available. Further, while response data could be used to analyze the frequency of response and clean-up, again information was not provided with sufficient regularity to offer much information. While some data do exist on specific clean-up activities, and occasionally quantity recovered, they are the exception rather than the rule. This field was restricted to yes, no, or blank entries to indicate whether clean-up activities were initiated or not needed. Blank entries correspond to incident reports with no available information.

Summary

While the various formats of data made editing a tedious task, it also necessitated a familiarity with the data that dictated the format of the ensuing analysis. After editing the data, two issues became clear. The first related to the reliability of the information available from currently available data, wherein existing parameter fields were inconsistently completed. Second, and perhaps more importantly, altering the format of future data collection efforts would allow more complete analysis, and more accurate tracking and control of spills, as further discussed in the Conclusions Section.

III. Data Analysis

A. Data Overview

One of the original objectives of this analysis is to determine whether data are available to quantify loadings to the Potomac River and its tributaries. Ideally, this information would be obtained directly from incident reports containing information on quantity of pollutant discharged to water. These data were sparse at best. Furthermore, incident reports with quantity data of any kind comprised only about a third of the final data.

Through the initial data review and editing, it became clear that the available data were insufficient to allow a truly rigorous analysis of mode, quantity and distribution of pollutants spilled. However, the data did allow an examination in a coarse way, through analysis of number of incidents reported for these three issues. More detailed numerical analysis of quantities spilled was carried out on subsets of the original data base, made up of incident reports containing more complete data.

After final editing, the complete data base, comprising all selected incident reports from the four agencies, contained approximately 2500 records. The data had been reduced to approximately one-tenth of the original number through elimination of redundant, irrelevant and/or incomplete entries. Two data subsets were constructed from the larger set for quantitative analysis. The first of these consisted of all entries with a positive quantity of spilled material. The second was a further subset containing quantity information on discharge to water. These three data sets; ALLDATA, POSQ, and H2OQ respectively, form the base sets for all analysis.

Using these data sets, initial analysis examines number of incidents only, looking at distribution through mode, location and pollutant. Quantity analysis was carried out on only the two data sets with associated quantity data. This analysis examines the distribution of spill sizes, though it is additionally complicated by the use of a variety of reporting units, making trend and loading analysis difficult based on available data. The final analysis section addresses seasonal and annual trends, again disaggregating incidents by location, mode and pollutant.

The following two sets of tables present a summary of the incident analysis. The first set of three tables lists the number of incidents and percent of total for each of the three data sets, analyzed for location, mode and pollutant respectively. The second set of four tables displays a further disaggregation of entries by pollutant and mode for each data set, respectively, with the final table combining the data from the three individual sets for comparison. Comparative analysis within each of these categories follows.

Figure 3: Number of Incidents by Location, all data sets

GROSS ANALYSIS

	ALLDATA		POSQ		H2OQ	
COUNTY	# incidents	% total	# incidents	% total	# incidents	% total
ALEX	237	9.52	68	9.18	17	10.97
ARL	158	6.35	48	6.48	11	7.10
AUG	89	3.58	33	4.45	4	2.58
CLK	37	1.49	5	0.67	0	0.00
FFAX	701	28.16	243	32.79	46	29.68
FC	38	1.53	7	0.94	0	0.00
FAUQ	115	4.62	37	4.99	4	2.58
FRED	57	2.29	14	1.89	2	1.29
HARR	50	2.01	12	1.62	2	1.29
HIGH	4	0.16	0	0.00	0	0.00
KING G	18	0.72	6	0.81	3	1.94
LOUD	153	6.15	33	4.45	8	5.16
MANN	33	1.33	6	0.81	1	0.65
NORTH	32	1.29	5	0.67	2	1.29
PAGE	30	1.21	11	1.48	1	0.65
PR WILL	268	10.77	90	12.15	25	16.13
ROCK	102	4.10	27	3.64	6	3.87
SHEN	69	2.77	19	2.56	3	1.94
STAF	145	5.83	33	4.45	7	4.52
STAUN	17	0.68	1	0.13	0	0.00
WARR	47	1.89	12	1.62	2	1.29
WAYNE	25	1.00	14	1.89	2	1.29
WEST	40	1.61	14	1.89	9	5.81
WINCH	24	0.96	3	0.40	0	0.00
total	2489	100.00	741	100.00	155	100.00

Figure 4: Number of Incidents by Mode, all data sets

	ALLDATA		POSQ		H2OQ	
MODE	# incidents	% total	# incidents	% total	# incidents	% total
DUMP	332	13.34	58	7.83	18	11.61
DUST	16	0.64	0	0.00	0	0.00
CONTAINER	1197	48.09	260	35.09	51	32.90
HIGHWAY	37	1.49	13	1.75	9	5.81
H/CARGO	146	5.87	52	7.02	15	9.68
H/EQUIP	39	1.57	32	4.32	3	1.94
H/VEHICLE	89	3.58	71	9.58	16	10.32
MARINE	69	2.77	18	2.43	15	9.68
PIPELINE	121	4.86	28	3.78	4	2.58
RAIL	27	1.08	9	1.21	1	0.65
TRANSFER	194	7.79	118	15.92	14	9.03
TRANS/CAP	68	2.73	52	7.02	5	3.23
UNKNOWN	154	6.19	30	4.05	4	2.58
total	2489	100	741	100.00	155	100.00

Figure 5: Number of Incidents by Pollutant, all data sets

	ALLDATA		POSQ		H2OQ	
POLLUTANT	# incidents	% total	# incidents	% total	# incidents	% total
ACID	37	1.49	8	1.08	1	0.65
AMMONIA	25	1.00	10	1.35	0	0.00
ANTIF	26	1.04	7	0.94	3	1.94
ASBESTOS	22	0.88	4	0.54	0	0.00
CHLORINE	31	1.25	12	1.62	0	0.00
MISC	200	8.04	78	10.53	12	7.74
PAINT	27	1.08	7	0.94	2	1.29
PCBS	72	2.89	46	6.21	2	1.29
PEST	70	2.81	38	5.13	6	3.87
PP	1689	67.86	519	70.04	125	80.65
SEWAGE	126	5.06	0	0.00	0	0.00
TOC	18	0.72	4	0.54	0	0.00
UNK	146	5.87	8	1.08	4	2.58
total	2489	100.00	741	100.00	155	100.00

Figure 6: Incidents by Pollutant and Mode, ALLDATA

ALLDATA	MODE													
POLLUTAN	DUMP	DUST	FIXED	HIGHW	H/CAR	H/EQU	H/VEH	MARIN	PIPELI	RAIL	TRANS	TR/CA	UNKN	total
ACID	3	0	21	0	8	1	0	0	1	3	0	0	0	37
AMMONIA	1	0	15	1	0	0	0	0	6	0	2	0	0	25
ANTIF	16	0	4	0	3	0	0	0	0	0	1	0	2	26
ASBESTOS	9	0	9	1	0	1	0	0	1	0	1	0	0	22
CHLORINE	3	0	23	0	1	1	0	0	0	0	1	0	2	31
MISC	24	0	82	3	40	7	3	3	9	10	11	0	8	200
PAINT	11	0	7	1	5	0	0	2	0	0	0	0	1	27
PCBS	3	0	8	0	0	0	0	0	0	0	0	53	9	73
PEST	8	0	26	2	12	9	1	1	0	0	10	0	1	70
PP	187	16	888	24	64	20	84	55	58	11	162	15	104	1688
SEWAGE	20	0	58	0	2	0	0	0	42	0	0	0	4	126
TOC	2	0	9	0	2	0	1	1	0	0	2	0	1	18
UNK	45	0	47	5	9	0	0	7	4	3	4	0	22	146
total	332	16	1197	37	146	39	89	69	121	27	194	68	154	2489

Figure 7: Incidents by Pollutant and Mode, POSQ

POSQ	MODE													
POLLUTAN	DUMP	DUST	FIXED	HIGHW	H/CAR	H/EQU	H/VEH	MARIN	PIPELI	RAIL	TRANS	TR/CA	UNKN	total
ACID	0	0	4	0	3	1	0	0	0	0	0	0	0	8
AMMONIA	0	0	6	0	0	0	0	0	2	0	2	0	0	10
ANTIF	6	0	1	0	0	0	0	0	0	0	0	0	0	7
ASBESTOS	2	0	0	1	0	0	0	0	1	0	0	0	0	4
CHLORINE	0	0	10	0	0	1	0	0	0	0	0	0	1	12
MISC	10	0	34	1	10	4	1	2	3	1	8	0	5	79
PAINT	3	0	2	0	2	0	0	0	0	0	0	0	0	7
PCBS	0	0	2	0	0	0	0	0	0	0	0	38	6	46
PEST	2	0	9	1	7	9	1	0	0	0	9	0	0	38
PP	32	0	187	10	30	17	69	16	22	8	98	14	15	518
SEWAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOC	0	0	3	0	0	0	0	0	0	0	1	0	0	4
UNK	3	0	2	0	0	0	0	0	0	0	0	0	3	8
total	58	0	260	13	52	32	71	18	28	9	118	52	30	741

Figure 8: Incidents by Pollutant and Mode, H2OQ

H2OQ	MODE													
POLLUTAN	DUMP	DUST	FIXED	HIGHW	H/CAR	H/EQU	H/VEH	MARIN	PIPELI	RAIL	TRANS	TR/CA	UNKN	total
ACID	0	0	1	0	0	0	0	0	0	0	0	0	0	1
AMMONIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTIF	3	0	0	0	0	0	0	0	0	0	0	0	0	3
ASBESTOS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLORINE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC	2	0	6	1	1	0	0	1	0	0	1	0	0	12
PAINT	1	0	0	0	1	0	0	0	0	0	0	0	0	2
PCBS	0	0	0	0	0	0	0	0	0	0	0	2	0	2
PEST	0	0	1	0	2	1	0	0	0	0	2	0	0	6
PP	10	0	42	8	11	2	16	14	4	1	11	3	3	125
SEWAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNK	2	0	1	0	0	0	0	0	0	0	0	0	1	4
total	18	0	51	9	15	3	16	15	4	1	14	5	4	155

Figure 9: Aggregated Data by Pollutant and Mode

	MODE													
POLLUTANT	DUMP	DUST	FIXED	HIGHW	H/CAR	H/EQU	H/VEH	MARI	PIPELI	RAIL	TRANS	TR/CA	UNKN	totals
ACID: ALL	3	0	21	0	8	1	0	0	1	3	0	0	0	37
POSQ	0	0	4	0	3	1	0	0	0	0	0	0	0	8
H2OQ	0	0	1	0	0	0	0	0	0	0	0	0	0	1
AMMON:ALL	1	0	15	1	0	0	0	0	6	0	2	0	0	25
POSQ	0	0	6	0	0	0	0	0	2	0	2	0	0	10
H2OQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTIF:ALL	16	0	4	0	3	0	0	0	0	0	1	0	2	26
POSQ	6	0	1	0	0	0	0	0	0	0	0	0	0	7
H2OQ	3	0	0	0	0	0	0	0	0	0	0	0	0	3
ASBES:ALL	9	0	9	1	0	1	0	0	1	0	1	0	0	22
POSQ	2	0	0	1	0	0	0	0	1	0	0	0	0	4
H2OQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLOR:ALL	3	0	23	0	1	1	0	0	0	0	1	0	2	31
POSQ	0	0	10	0	0	1	0	0	0	0	0	0	1	12
H2OQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC: ALL	24	0	82	3	40	7	3	3	9	10	11	0	8	200
POSQ	10	0	34	1	10	4	1	2	3	1	8	0	5	79
H2OQ	2	0	6	1	1	0	0	1	0	0	1	0	0	12
PAINT: ALL	11	0	7	1	5	0	0	2	0	0	0	0	1	27
POSQ	3	0	2	0	2	0	0	0	0	0	0	0	0	7
H2OQ	1	0	0	0	1	0	0	0	0	0	0	0	0	2
PCBS:ALL	3	0	8	0	0	0	0	0	0	0	0	53	9	73
POSQ	0	0	2	0	0	0	0	0	0	0	0	38	6	46
H2OQ	0	0	0	0	0	0	0	0	0	0	0	2	0	2
PEST:ALL	8	0	26	2	12	9	1	1	0	0	10	0	1	70
POSQ	2	0	9	1	7	9	1	0	0	0	9	0	0	38
H2OQ	0	0	1	0	2	1	0	0	0	0	2	0	0	6
PP: ALL	187	16	888	24	64	20	84	55	58	11	162	15	104	1688
POSQ	32	0	187	10	30	17	69	16	22	8	98	14	15	518
H2OQ	10	0	42	8	11	2	16	14	4	1	11	3	3	125
SEWG:ALL	20	0	58	0	2	0	0	0	42	0	0	0	4	126
POSQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H2OQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOC: ALL	2	0	9	0	2	0	1	1	0	0	2	0	1	18
POSQ	0	0	3	0	0	0	0	0	0	0	1	0	0	4
H2OQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNK: ALL	45	0	47	5	9	0	0	7	4	3	4	0	22	146
POSQ	3	0	2	0	0	0	0	0	0	0	0	0	3	8
H2OQ	2	0	1	0	0	0	0	0	0	0	0	0	1	4

B. Incident Analysis

The distribution of pollutant spills was first examined on the basis of number of incidents only. Data were sorted by location of discharge, by mode of discharge, and by pollutant. This analysis was carried out for all three of the data sets discussed: all data, positive quantity and quantity to water.

1. Spills by Location

The first pass at locational analysis entailed partitioning of the data sets by county codes. Grouping the counties into the respective State Water Control Board Regions, the following distribution of incidents was obtained.

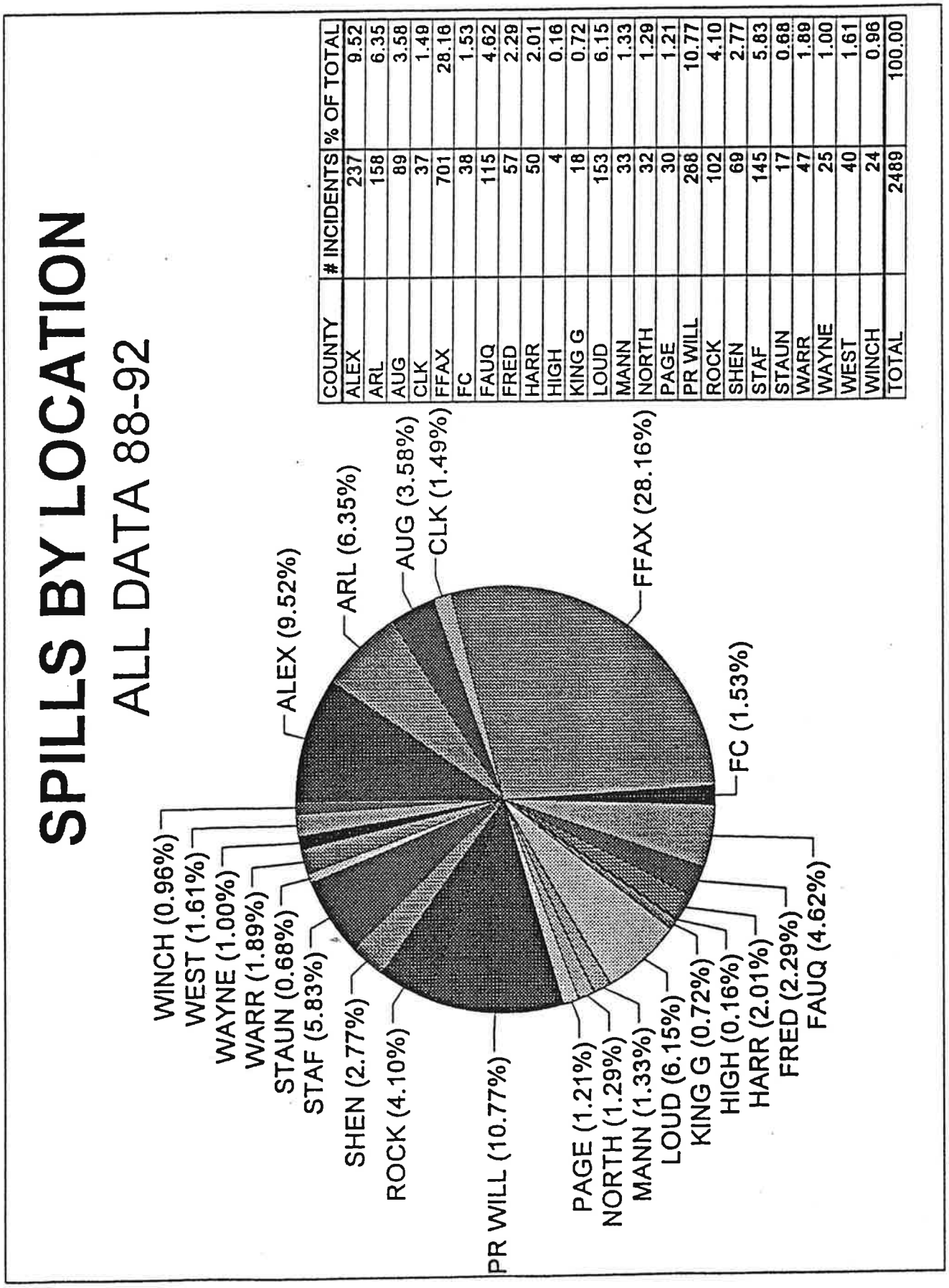
Figure 10: Spill Distribution by SWCB Region

	ALLDATA		POSQ		H2OQ	
REGION	# spills	%total	# spills	%total	# spills	%total
NORTHERN	1866	74.97	571	77.06	122	78.71
VALLEY	551	22.14	151	20.38	22	14.19
TIDEWATER	72	2.89	19	2.56	11	7.10
total	2489	100	741	100	155	100

A more detailed picture of incident distribution is obtained by disaggregating the data to county level. In all three data sets, it is clear that the majority of reported spills occur in the Metropolitan Washington Area. Combined spills for Alexandria, Arlington, Fairfax, Falls Church, Fauquier, Loudon, Prince William, and Stafford, defining the metropolitan region, total 72.93, 75.43, and 76.14%, respectively, with Fairfax County consistently reporting the largest total number of incidents. These numbers are not surprising in that this region also represents the highest density of population and traffic. The following charts display the distribution of incidents by county and their contribution to the total numbers of spills. Abbreviations used for counties and municipalities are listed below.

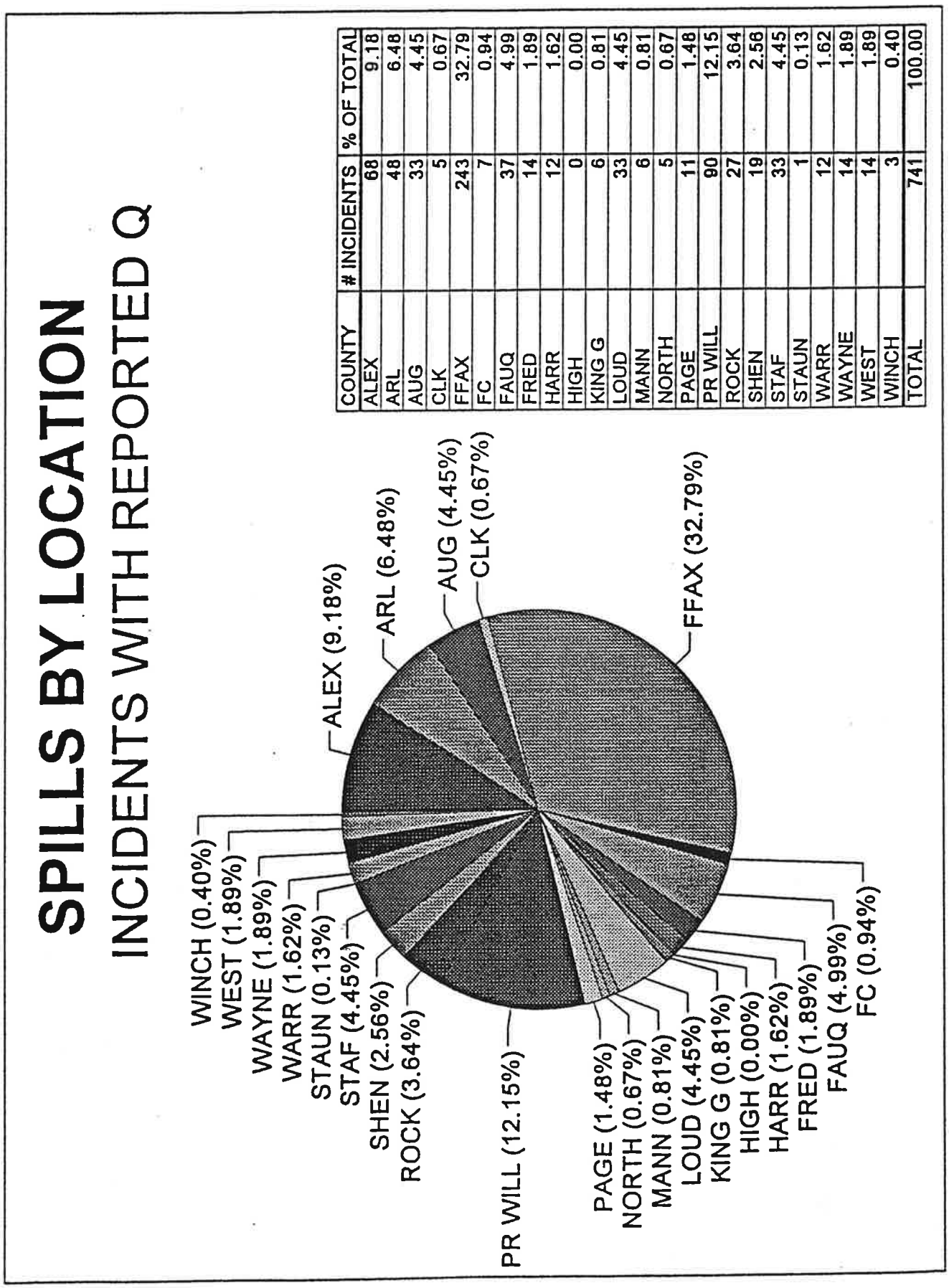
ALEX: Alexandria
ARL: Arlington
CLK: Clarke
FFAX: Fairfax
FC: Falls Church
FAUQ: Fauquier
FRED: Frederick
HARR: Harrisonburg
HIGH: Highland
KING G: King George
LOUD: Loudon
MANN: Manassas
NORTH: Northumberland
PAGE: Page
PR WIL: Prince William
ROCK: Rockingham
SHEN: Shenandoah
STAF: Stafford
STAUN: Staunton
WARR: Warren
WAYNE:Waynesboro
WEST: Westmoreland
WINCH: Winchester

Figure 11: Spills by Location, ALLDATA



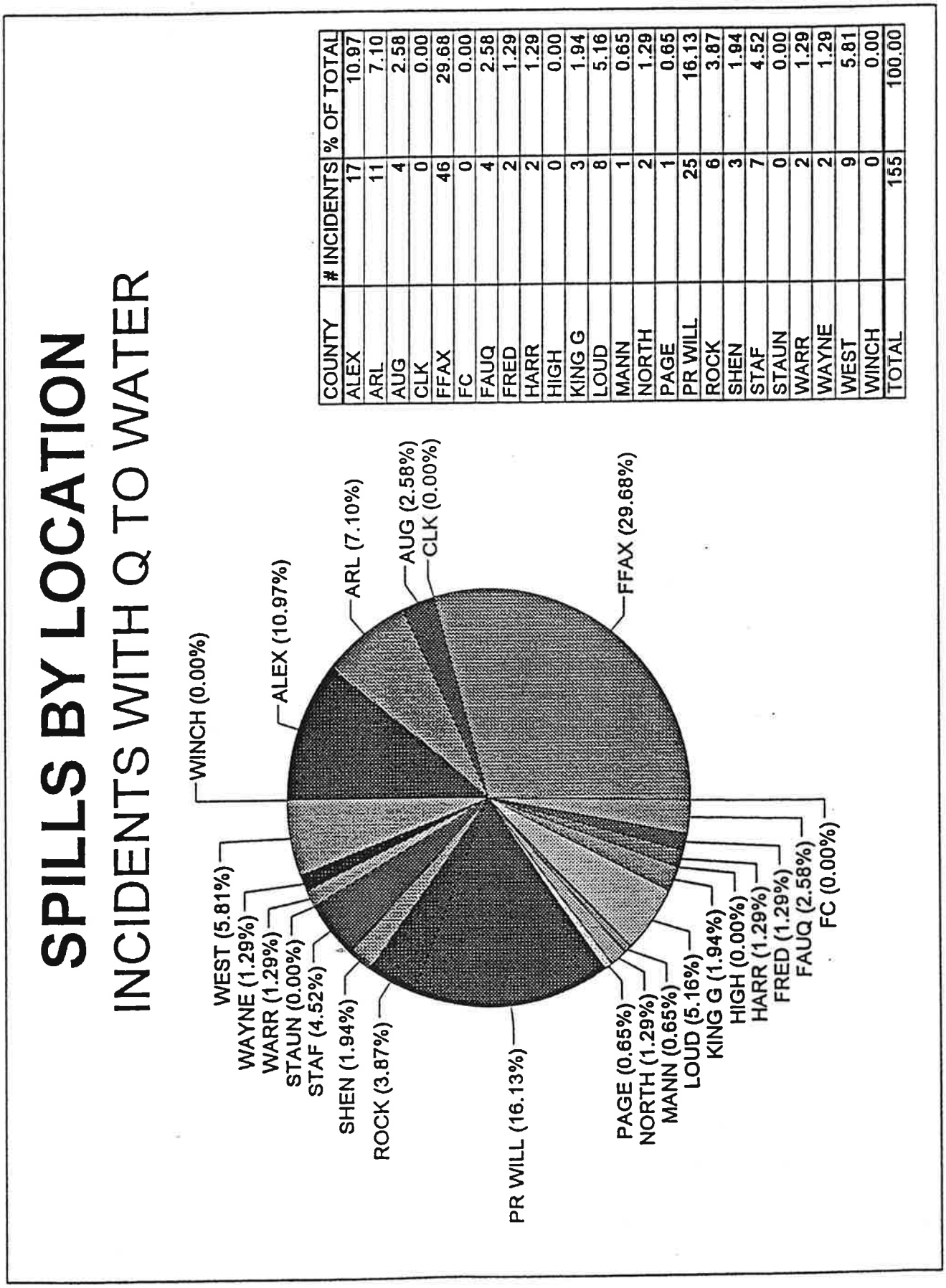
COUNTY	# INCIDENTS	% OF TOTAL
ALEX	237	9.52
ARL	158	6.35
AUG	89	3.58
CLK	37	1.49
FFAX	701	28.16
FC	38	1.53
FAUQ	115	4.62
FRED	57	2.29
HARR	50	2.01
HIGH	4	0.16
KING G	18	0.72
LOUD	153	6.15
MANN	33	1.33
NORTH	32	1.29
PAGE	30	1.21
PR WILL	268	10.77
ROCK	102	4.10
SHEN	69	2.77
STAF	145	5.83
STAUN	17	0.68
WARR	47	1.89
WAYNE	25	1.00
WEST	40	1.61
WINCH	24	0.96
TOTAL	2489	100.00

Figure 12: Spills by Location, POSQ



COUNTY	# INCIDENTS	% OF TOTAL
ALEX	68	9.18
ARL	48	6.48
AUG	33	4.45
CLK	5	0.67
FFAX	243	32.79
FC	7	0.94
FAUQ	37	4.99
FRED	14	1.89
HARR	12	1.62
HIGH	0	0.00
KING G	6	0.81
LOUD	33	4.45
MANN	6	0.81
NORTH	5	0.67
PAGE	11	1.48
PR WILL	90	12.15
ROCK	27	3.64
SHEN	19	2.56
STAF	33	4.45
STAUN	1	0.13
WARR	12	1.62
WAYNE	14	1.89
WEST	14	1.89
WINCH	3	0.40
TOTAL	741	100.00

Figure 13: Spills by Location, H2OQ



COUNTY	# INCIDENTS	% OF TOTAL
ALEX	17	10.97
ARL	11	7.10
AUG	4	2.58
CLK	0	0.00
FFAX	46	29.68
FC	0	0.00
FAUQ	4	2.58
FRED	2	1.29
HARR	2	1.29
HIGH	0	0.00
KING G	3	1.94
LOUD	8	5.16
MANN	1	0.65
NORTH	2	1.29
PAGE	1	0.65
PR WILL	25	16.13
ROCK	6	3.87
SHEN	3	1.94
STAF	7	4.52
STAUN	0	0.00
WARR	2	1.29
WAYNE	2	1.29
WEST	9	5.81
WINCH	0	0.00
TOTAL	155	100.00

2. Spills By Mode

To examine the source of discharges, the three data sets were partitioned according to the defined mode categories. The following figures illustrate fairly dominant patterns of discharge. It should be noted again that this analysis is an examination of numbers of incidents, not quantities released.

In each of the three data sets, the overwhelming mode of pollutant discharge was from fixed containers. The following table displays the top five mode categories, responsible for almost 90% of the total number of incidents.

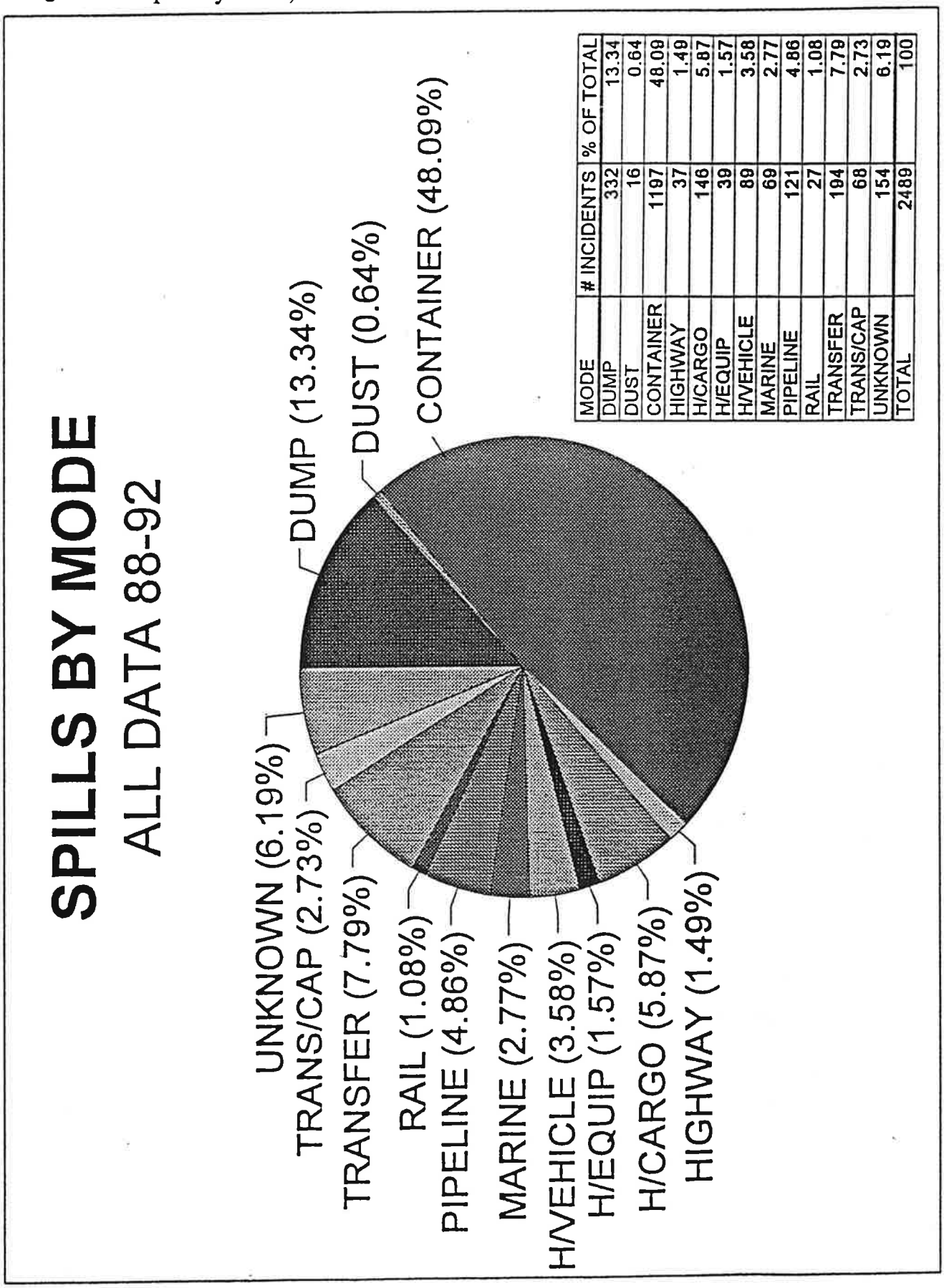
Figure 14: Leading Modes of Discharge

ALLDATA		POSQ		H2OQ	
Container	48.09%	Container	35.09%	Container	32.90%
Dumping	13.34%	Highway	22.67%	Highway	27.75%
Highway	12.51%	Transfer	15.92%	Dumping	11.61%
Transfer	7.79%	Dumping	7.83%	Marine	9.68%
Unknown	6.19%	Trans/cap	7.02%	Transfer	9.03%
total	87.92%		88.53%		90.97%

Four of the five predominating pollutant sources are common to all three data sets. Their order shifts only slightly between the three. This is presumably due to the inconsistency in reporting quantity spilled and/or quantity to water. Quantitative data is reported on the basis of availability of information, and not consistently by type of spill, i.e., the inconsistency of reporting is common among spill types. The exception to this is illustrated in the table, where the percentage of marine incidents appears higher in the data set containing reported quantities to water.

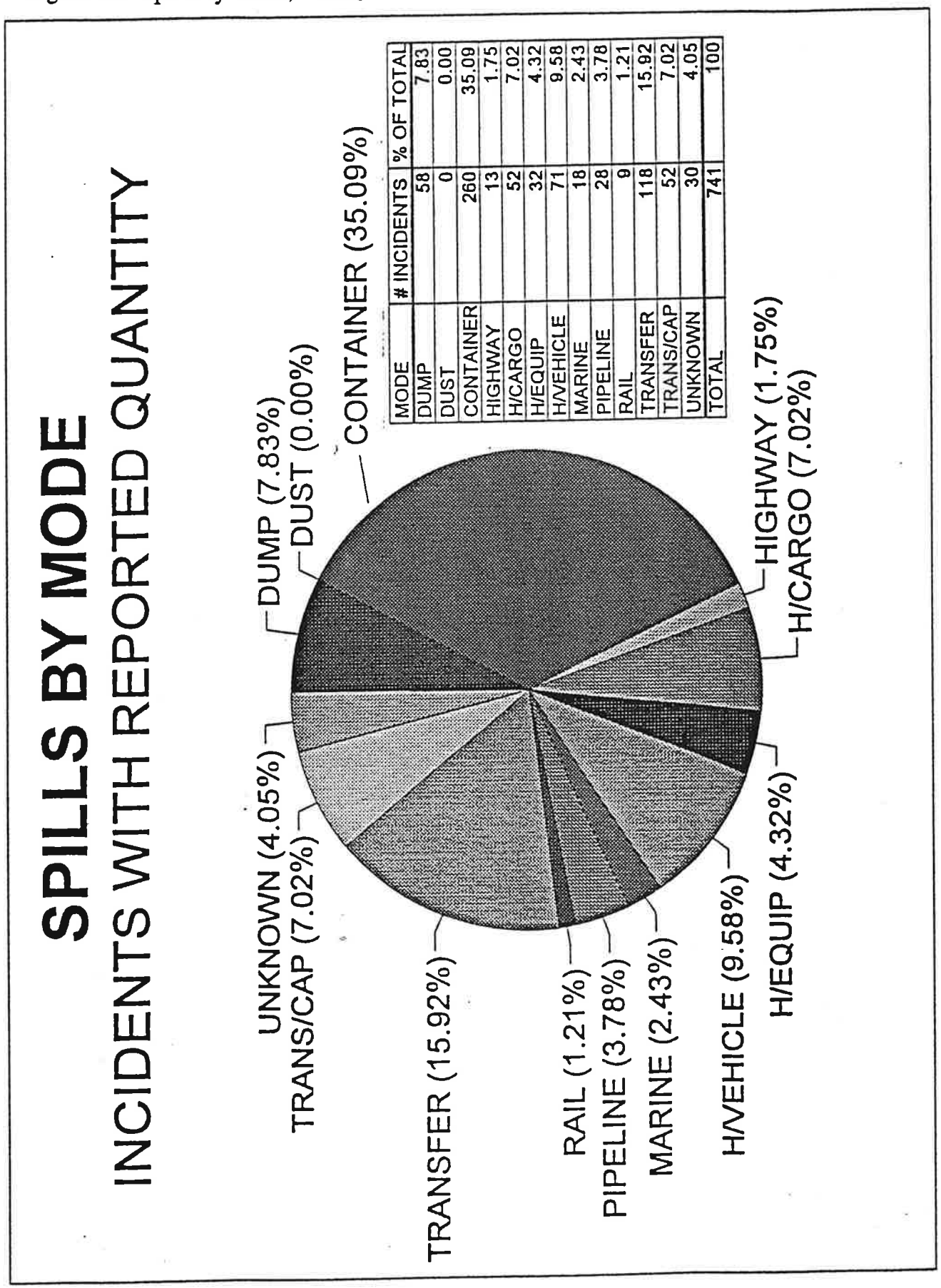
The following figures display, in greater detail, the number of incidents of each type reported and their contribution to the total number of discharge incidents.

Figure 15: Spills by Mode, ALLDATA

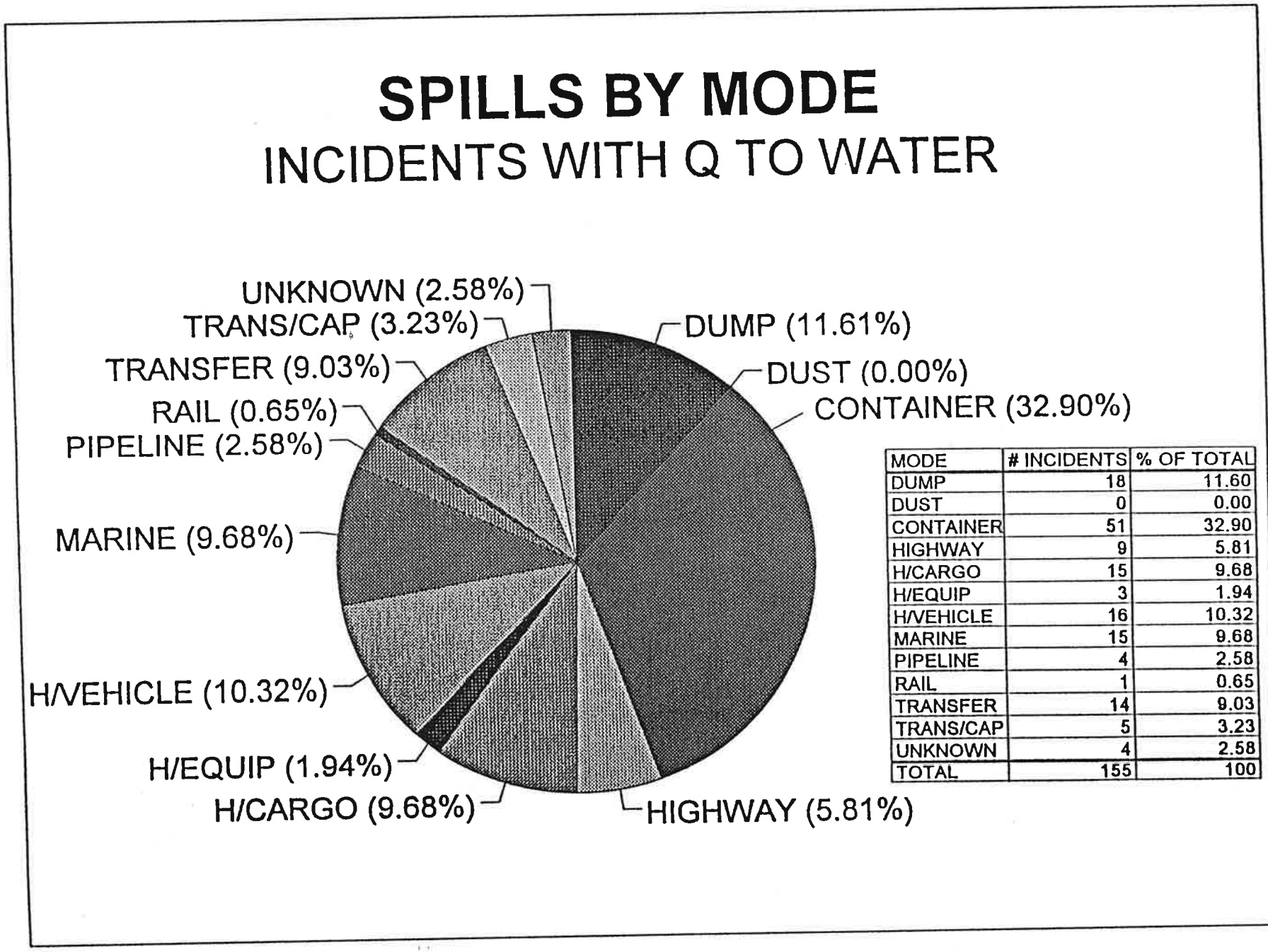


MODE	# INCIDENTS	% OF TOTAL
DUMP	332	13.34
DUST	16	0.64
CONTAINER	1197	48.09
HIGHWAY	37	1.49
H/CARGO	146	5.87
H/EQUIP	39	1.57
H/VEHICLE	89	3.58
MARINE	69	2.77
PIPELINE	121	4.86
RAIL	27	1.08
TRANSFER	194	7.79
TRANS/CAP	68	2.73
UNKNOWN	154	6.19
TOTAL	2489	100

Figure 16: Spills by Mode, POSQ



MODE	# INCIDENTS	% OF TOTAL
DUMP	58	7.83
DUST	0	0.00
CONTAINER	260	35.09
HIGHWAY	13	1.75
H/CARGO	52	7.02
H/EQUIP	32	4.32
H/VEHICLE	71	9.58
MARINE	18	2.43
PIPELINE	28	3.78
RAIL	9	1.21
TRANSFER	118	15.92
TRANS/CAP	52	7.02
UNKNOWN	30	4.05
TOTAL	741	100



MODE	# INCIDENTS	% OF TOTAL
DUMP	18	11.60
DUST	0	0.00
CONTAINER	51	32.90
HIGHWAY	9	5.81
H/CARGO	15	9.68
H/EQUIP	3	1.94
H/VEHICLE	16	10.32
MARINE	15	9.68
PIPELINE	4	2.58
RAIL	1	0.65
TRANSFER	14	9.03
TRANS/CAP	5	3.23
UNKNOWN	4	2.58
TOTAL	155	100

Figure 17: Spills by Mode, H2OQ

3. Spills by Pollutant

In the same manner, the data sets were sorted for analysis by pollutant. The following table lists pollutants in order of occurrence for the three data sets.

Figure 18: Incident Analysis by Pollutant

ALLDATA POLLUTANT	# INCIDENTS	% TOTAL
PP	1689	67.86
MISC	200	8.04
UNK	146	5.87
SEWAGE	126	5.06
PCBS	72	2.89
PEST	70	2.81
ACID	37	1.50
CHLORINE	31	1.25
PAINT	27	1.08
ANTIF	26	1.04
AMMONIA	25	1.00
ASBESTOS	22	0.88
TOC	18	0.72
TOTAL	2489	100

POSQ POLLUTANT	# INCIDENTS	% TOTAL
PP	519	70.04
MISC	78	10.53
PCBS	46	6.21
PEST	38	5.13
CHLORINE	12	1.62
AMMONIA	10	1.35
UNK	8	1.08
ACID	8	1.08
ANTIF	7	0.94
PAINT	7	0.94
TOC	4	0.54
ASBESTOS	4	0.54
SEWAGE	0	0.00
TOTAL	741	100

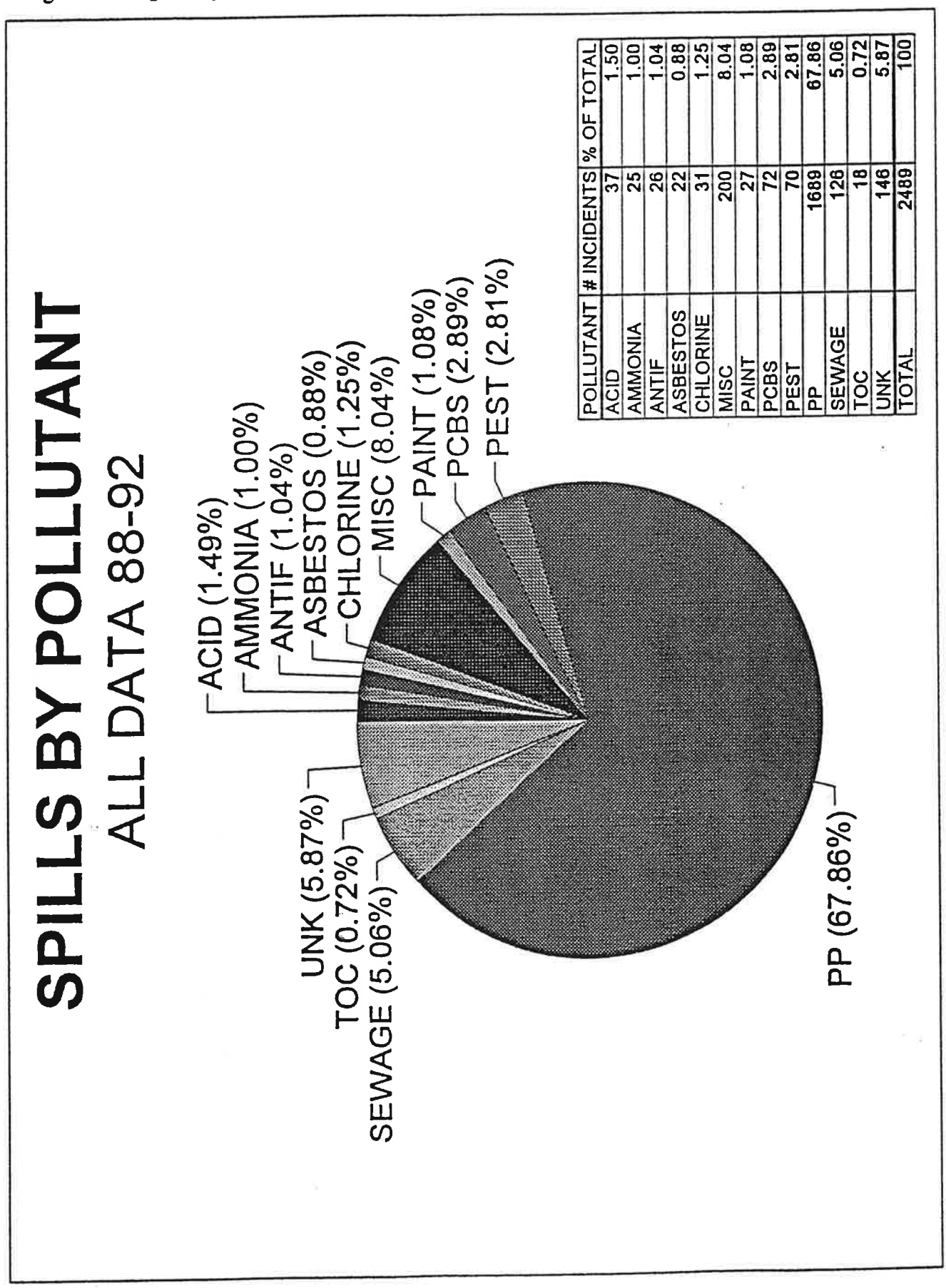
H2OQ POLLUTANT	# INCIDENTS	% TOTAL
PP	125	80.65
MISC	12	7.74
PEST	6	3.86
UNK	4	2.58
ANTIF	3	1.94
PCBS	2	1.29
PAINT	2	1.29
ACID	1	0.65
SEWAGE	0	0.00
TOC	0	0.00
CHLORINE	0	0.00
ASBESTOS	0	0.00
AMMONIA	0	0.00
TOTAL	155	100

Again, the analysis by pollutant is clearly dominated by petroleum products in all three data sets. Petroleum represents roughly three quarters of all reported incidents. The broad definition of the constituents of this category in general would lead one to expect this result.

Miscellaneous unknown chemicals, and the even more generalized unknown pollutant category comprise the second and third most frequently reported categories of spills. Again, these are broadly defined categories. The unknown category drops in significance as data is restricted to entries with associated quantity. This is due largely to the use of this category to report spills which cannot be accurately described, either in pollutant or quantity. This is further evidenced by the fact that of a total of 146 entries in this category, only 8 have quantity data reported, and only four of these have information on quantity discharged to water.

A detailed breakdown of incidents for all pollutants is displayed in the following charts.

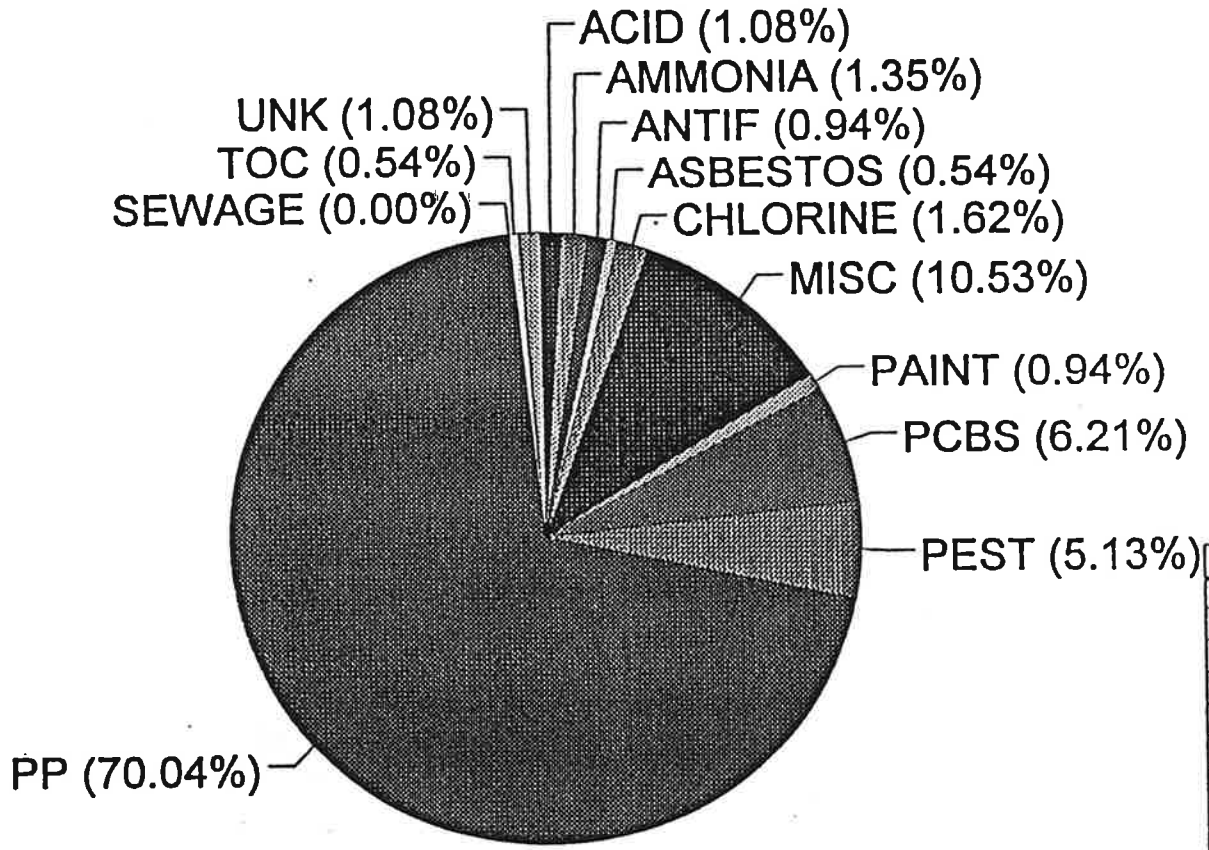
Figure 19: Spills by Pollutant, ALLDATA



POLLUTANT	# INCIDENTS	% OF TOTAL
ACID	37	1.50
AMMONIA	25	1.00
ANTIF	26	1.04
ASBESTOS	22	0.88
CHLORINE	31	1.25
MISC	200	8.04
PAINT	27	1.08
PCBS	72	2.89
PEST	70	2.81
PP	1689	67.86
SEWAGE	126	5.06
TOC	18	0.72
UNK	146	5.87
TOTAL	2489	100

SPILLS BY POLLUTANT

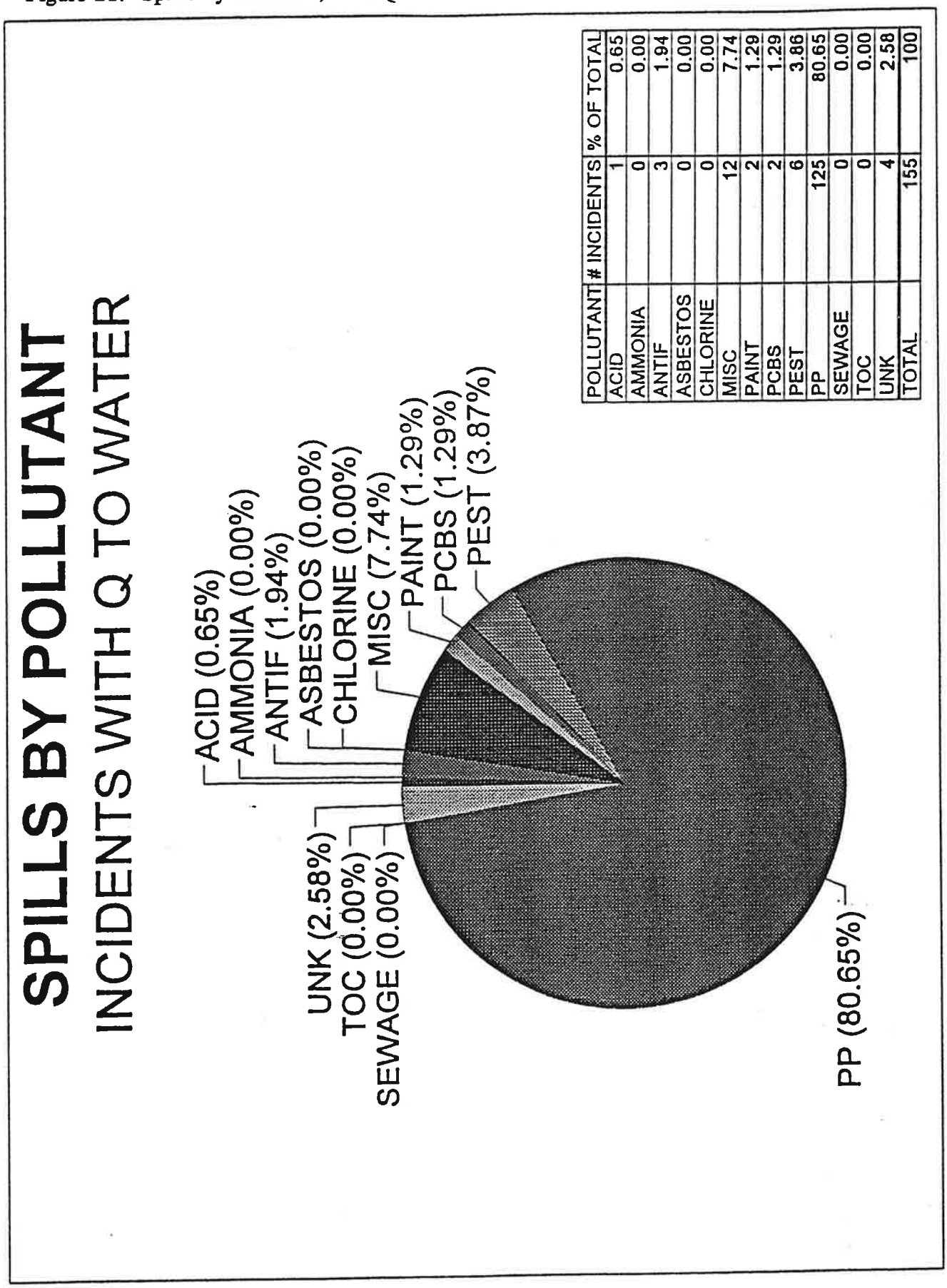
INCIDENTS WITH REPORTED QUANTITY



POLLUTANT	# INCIDENTS	% OF TOTAL
ACID	8	1.08
AMMONIA	10	1.35
ANTIF	7	0.94
ASBESTOS	4	0.54
CHLORINE	12	1.62
MISC	78	10.53
PAINT	7	0.94
PCBS	46	6.21
PEST	38	5.13
PP	519	70.04
SEWAGE	0	0.00
TOC	4	0.54
UNK	8	1.08
TOTAL	741	100

Figure 20: Spills by Pollutant, POSQ

Figure 21: Spills by Pollutant, H2OQ



POLLUTANT	# INCIDENTS	% OF TOTAL
ACID	1	0.65
AMMONIA	0	0.00
ANTIF	3	1.94
ASBESTOS	0	0.00
CHLORINE	0	0.00
MISC	12	7.74
PAINT	2	1.29
PCBS	2	1.29
PEST	6	3.86
PP	125	80.65
SEWAGE	0	0.00
TOC	0	0.00
UNK	4	2.58
TOTAL	155	100

C. Quantity Analysis

Over the five year period used for analysis, quantitative information on discharge was available in only 741 reports. This represents less than one third of the final data set which includes all incidents. Further, of the 741 entries which contain quantitative information, only 155 reports contain data indicating discharge to water.

In order to utilize spill data to supplement loading inventories, or to discuss prevention or mitigation programs, the need for additional data is obvious. The data that has been gathered to date can be used to indicate broad trends, yet its use to detect patterns in spill activity must be qualified. Again, because the number of quantitative data entries is so small, this information will not be examined for trends on a county basis.

Lack of data is the first of three data limitations pertinent to further analysis. The other two, the use of multiple units (pounds, gallons, etc.) in reporting spills, and the wide variation in spill size will also be discussed.

1. Quantitative Data

The following two matrices display a complete disaggregation of spills for the two data sets POSQ and H2OQ. Data on discharge to water are so scarce that, beyond the presentation of this disaggregation, no further analysis is carried out on this data set. Quantitative analysis, will utilize the data set POSQ, which is inclusive of the data represented in H2OQ.

In the matrices, the first line of entries by pollutant indicates the number of spills of that pollutant and mode. The subsequent lines under each pollutant heading contain the total reported quantity from all spills. In many instances, there are multiple entries corresponding to the various units used in reporting.

Examining these data, the limitation of the data in trend analysis is obvious. In most instances, when the data are disaggregated both by pollutant and mode, the number of entries available in any one cell is small, certainly below a level that could assure statistical significance in analysis.

Most data are so sparsely distributed throughout the tables, that few correlations can be made. In the cases of petroleum products and miscellaneous chemicals, while the data are comparatively plentiful, the entries are distributed through the mode categories. Given this condition, the almost complete correlation between PCB as pollutant and transformer and capacitor accidents, as mode, stands out. Relative correlation also occurs with antifreeze through dumping and chlorine discharge from fixed containers.

Figure 22: Disaggregated Spill Data, POSQ

POSQ	MODE													
POLLUTANT	DUMP	DUST	FIXED	HIGHW	H/CAR	H/EQU	H/VEH	MARIN	PIPELI	RAIL	TRANS	TR/CA	UNKN	TOTAL
ACID #	0	0	4	0	3	1	0	0	0	0	0	0	0	8
G			262		25	200								487
AMMONIA #	0	0	6	0	0	0	0	0	2	0	2	0	0	10
LB			2375						1400		200			3975
G											100			100
ANTIF #	6	0	1	0	0	0	0	0	0	0	0	0	0	7
G	310		25											335
ASBES #	2	0	0	1	0	0	0	0	1	0	0	0	0	4
D	96			16										112
FT	150													150
LB									2					2
CHLOR #	0	0	10	0	0	1	0	0	0	0	0	0	1	12
LB			675			40							4000	4715
G			12											12
CONT			10											10
MISC #	10	0	34	1	10	4	1	1	3	1	7	0	5	77
LB	13600		46627		14000	333	2		20	1	714		135	75431.5
G	209.5		5625	40	1251	3860		55	125		3951		752	15868.5
BBL	14		31										14	59
PAINT #	3	0	2	0	2	0	0	0	0	0	0	0	0	7
G	793.5		6		35									834.5
PCBS #	0	0	2	0	0	0	0	0	0	0	0	38	6	46
G			3									2160	114	2277
LB												420		420
PEST #	2	0	9	1	7	9	1	0	0	0	9	0	0	38
G	1001		669		2576	280	10				1620			6156
LB				313							4			317
PP #	32	0	187	10	30	17	69	17	22	8	99	14	15	520
G	6553.3		131550	4962	22415	1911	6788	1595	26868		32593	10543	5632	251410.3
LB					250									250
TIRES			750											750
SEWAGE #	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOC #	0	0	3	0	0	0	0	0	0	0	1	0	0	4
G			6								1			7
UNK #	3	0	2	0	0	0	0	0	0	0	0	0	3	8
G	405		380										3100	3885

Figure 23: Disaggregated Spill Data, H2OQ

H2OQ	MODE													
POLLUTANT	DUMP	DUST	FIXED	HIGHW	H/CAR	H/EQU	H/VEH	MARIN	PIPELI	RAIL	TRANS	TR/CA	UNKN	TOTAL
ACID #	0	0	1	0	0	0	0	0	0	0	0	0	0	1
G			2											2
AMMONIA #	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTIF #	3	0	0	0	0	0	0	0	0	0	0	0	0	3
G	142													142
ASBES #	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLOR #	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC #	2	0	6	1	1	0	0	1	0	0	1	0	0	12
G	20		47763	40	215			55			600			48693
PAINT #	1	0	0	0	1	0	0	0	0	0	0	0	0	2
G	22.5				225									247.5
PCBS #	0	0	0	0	0	0	0	0	0	0	0	2	0	2
G												215		215
PEST #	0	0	1	0	2	1	0	0	0	0	2	0	0	6
G			22		101	30					90			243
PP #	10	0	42	8	11	2	16	14	4	1	11	3	3	125
G	4866		11862	4830	4638	112	2086	1306	11450	2600	23858	10037	6	77651
TIRES			150											150
SEWAGE #	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOC #	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNK #	2	0	1	0	0	0	0	0	0	0	0	0	1	4
G	400		50										50	500

Though data for most incidents is insufficient for quantitative analysis relating to pollutant or mode of discharge, comparing the rates at which quantity is reported yields information that may be used in improving reporting of quantities for later analysis. The table presented in figure 24 compares the data sets ALLDATA and POSQ and looks at the percent of incidents in which quantity is reported, by pollutant and mode.

Figure 24: "Q Reported" Analysis by Pollutant and Mode

POLLUTANT					MODE			
	ALLDATA	POSQ	%rpting			ALLDATA	POSQ	%rpting
PCBS	73	46	63		H/EQUIP	39	32	82
PEST	70	38	54		H/VEHICLE	89	71	80
AMMONIA	25	10	40		TR/CAP	68	52	76
MISC	200	79	40		TRANSFER	194	118	61
CHLORINE	31	12	39		H/CARGO	146	52	36
PP	1688	518	31		HIGHWAY	37	13	35
ANTIF	26	7	27		RAIL	27	9	33
PAINT	27	7	26		MARINE	69	18	26
TOC	18	4	22		PIPELINE	121	28	23
ACID	37	8	22		FIXED CONT	1197	260	22
ASBESTOS	22	4	18		UNKN	154	30	19
UNK	146	8	5		DUMP	332	58	17
SEWAGE	126	0	0		DUST	16	0	0
total	2489	741	30		total	2489	741	30

While the overall average proportion of incidents which report quantities is thirty percent, there is a wide range of variation in the individual reporting rates both by pollutant and mode. Within pollutant categories, percentages of reported quantity vary from zero to 63%. In 63% of all spill incidents involving discharge of PCBs, quantities are estimated and reported. The next highest categories include pesticides, ammonia, miscellaneous chemicals and chlorine at rates of 54, 40, 40, and 39%, respectively. There are several reasons which may account for the comparatively high reporting rates among these categories. The first is the narrow definition of the category itself, in most cases including a specific chemical and notably excluding unknown pollutants or mixtures. The second reason for quantity estimation in these cases relates to the pollutants themselves. Each of these categories includes chemicals widely recognized as dangerous or toxic. Their use, transport, and disposal are more closely monitored and regulated. They are typically handled by professionals who more closely monitor their quantities, and recovery efforts following a spill are required.

In contrast to the five pollutant categories which have high rates of quantity estimation, the two lowest categories have reporting rates of zero and five percent. These categories include sewage and unknown pollutants and underscore the theories for quantity reporting listed above. These pollutant categories have the broadest definitions. In addition, they include pollutants spilled or discharged in an unregulated and often unreported manner. Many of these reports are filed by third parties who discover spilled pollutants after the actual incident and therefore have no idea what the pollutant is, its source, or any estimate of original quantity discharged.

Petroleum products comprise a similar broadly defined pollutant category, yet in this instance the reporting percentage of 31% approximates the overall average of 30%. This is a result of the wide variety of modes through which this category of pollutants can be discharged. Considering the case of petroleum products, and looking now at the second half of figure 24 where reporting percentages are listed by mode, petroleum products can be discharged through each of these, with the exception of unknown. And, as was the case in discharge by pollutant, a wide range of quantity reporting is seen among modes.

To explain the wide range in reporting percentages by mode, again we look at the differences in handling of pollutants between the higher end of the range and the lowest. Quantity reporting is more than twice as high as the overall average among highway/equipment and vehicle modes, transformer accidents and transfer spills. In each of these instances quantities are readily available from tank capacities, gauges and discharge rates. This inventory information coupled with the fact that in these instances, the time at which the discharge began and ended provides sufficient information for quantity estimation. In contrast, the lowest reporting categories which include spraying for dust control, dumping, unknown, and fixed containers all rely on third party reporting and/or delayed discovery of a spill. In addition, original capacities, or in the case of fixed containers, the length of time and rate of discharge are unknown, making quantity estimation difficult at best.

Quantity estimation is one of the more difficult aspects of spill reporting and at the same time potentially provides a great amount of information. It can be concluded from looking at the rate of quantity reporting both by pollutant and mode, that the degree of regulation of the product or pollutant directly relates to the ability to estimate quantities discharged through spills. Spills reported by third parties are obviously the most difficult to gauge in all cases. Increased recovery efforts may offer a means of improving quantity estimation in this arena. To improve reporting of quantitative information overall, the categories to focus on include those currently reporting in the mid-range. Closer regulation of pollutants, monitoring their use, transfer and disposal, periodic equipment inspection and increased recovery efforts would contribute both to improved quantity estimation as well as spill prevention as will be discussed further in the conclusions section.

2. Multiple Reporting Units

In addition to the need for improved quantitative information, two idiosyncracies of the available data make its use problematic, as illustrated in the following table. This table presents summary data for the data set POSQ. These data present total number of incidents and total quantities of spills by chemical, and display the variety of reporting units.

Figure 25: Spill Quantities by Reporting Unit

POLLUTANT	# spills	# by unit	total gal	total lb	total misc	units
ACID	8	8	487			
AMMONIA	10	1	100			
		9		3975		
ANTIFREEZE	7	7	335			
ASBESTOS	4	1		2		
		1			96	DRUM
		1			16	BAGS
		1			150	FT
CHLORINE	12	2	12			
		9		4715		
		1			10	CONT
MISC	77	51	14563			
		20		75432		
		4			85	BBL
		2			314	DRUM
PAINT	7	7	834			
PCBS	46	44	1295			
		2		420		
PESTICIDES	38	36	6155			
		2		317		
PETRO PROD	520	514	251410			
		3		395		
		3			750	TIRES
SEWAGE	0	0	0			
TOXICS	4	3	7			
		1				
UNKNOWN	8	7	3885			
		1			50	DRUM
total	741	741	279083	85256		

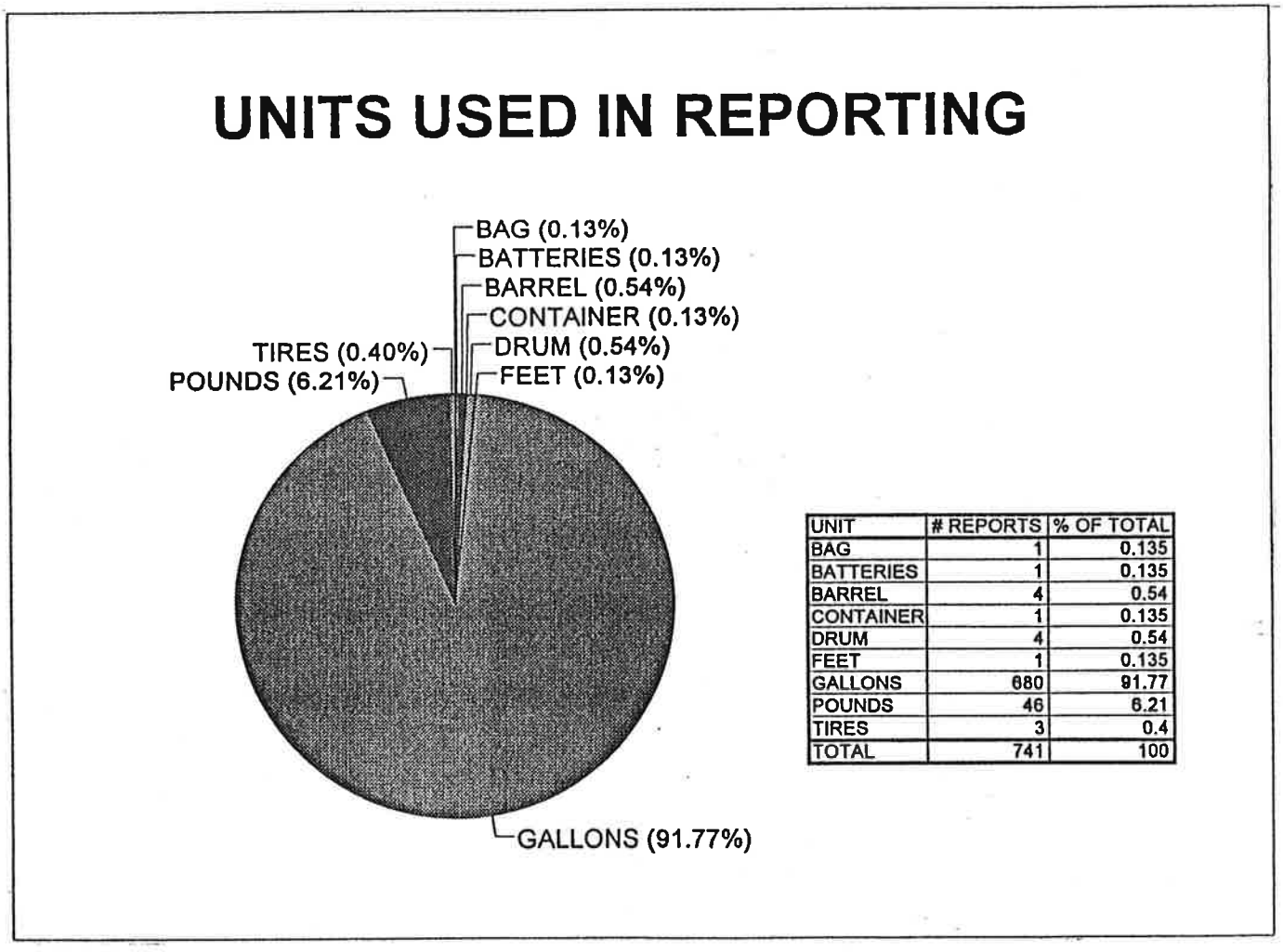
In order to interpret spill data and draw conclusions for pollutant loadings, an accurate statement of quantity is essential. The variation in reporting units of any one pollutant in the data set make this difficult for two reasons. The first is related to dilution factors, the second to residuals or precipitates.

When a chemical spill of pesticides occurs, for example, the quantity of spill is reported in a number of ways. If the spill is liquid, the quantity may be calculated from the container loss or simply estimated by the operator or investigating official. Liquid may be in a dilute or

concentrated form and the concentration factor is typically not reported. These spills are reported in gallons of liquid. Other spills, of dry products are reported in pounds, bags, drums, barrels, or other containers. Not only are the sizes of these containers often not reported, but the concentration of pollutant, as in the concentration of liquids is not reported.

In addition to container units, wet or dry, a number of spills were reported in quantities of 'raw' materials. Several tire fires were listed under petroleum products, with the associated quantity reported in number of tires. Similarly, asbestos shingles were reported in feet of roofing material, and leaking batteries were reported by number of batteries. In these instances, the issue is the precipitate from the deposited material, or residual left after the fire. These are quantities difficult to estimate, but essential for environmental loading information. The following chart illustrates the variety and frequency of reporting units.

Figure 26: Units Used in Reporting



UNIT	# REPORTS	% OF TOTAL
BAG	1	0.135
BATTERIES	1	0.135
BARREL	4	0.54
CONTAINER	1	0.135
DRUM	4	0.54
FEET	1	0.135
GALLONS	680	91.77
POUNDS	46	6.21
TIRES	3	0.4
TOTAL	741	100

3. Spill Size Distribution

Within any one pollutant and reporting unit, tremendous variation also occurs in the size of reported spills. The following table consists of the previous summary table of spills and quantity by pollutant, supplemented by data showing the largest and smallest spill sizes within each reporting unit.

Figure 27: Spill Size Distribution

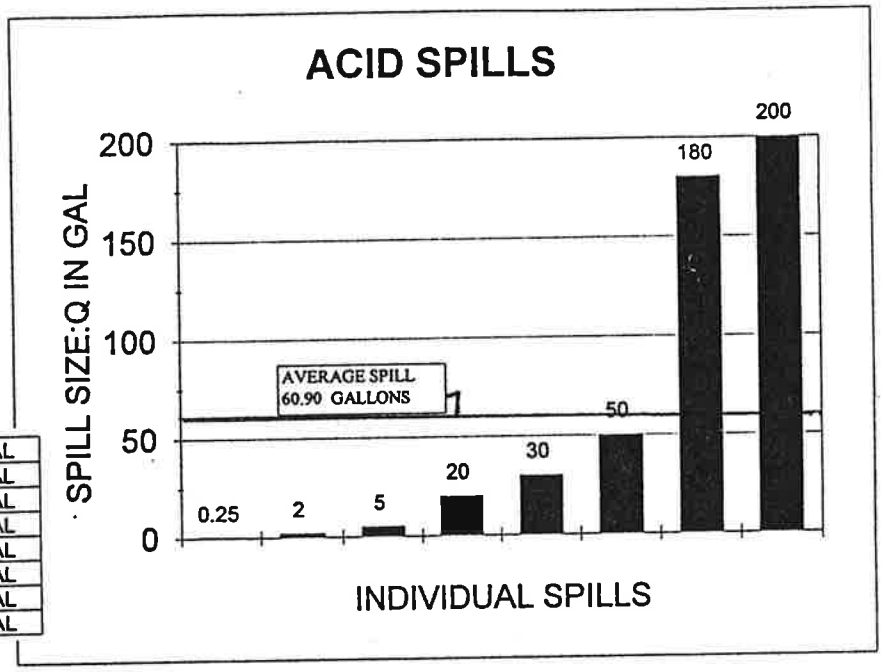
POLLUTANT	# spills	# by unit	total gal	total lb	total misc	units	q smallest	units	q largest	units
ACID	8	8	487				0.25	GAL	200	GAL
AMMONIA	10	1	100				100	GAL	100	GAL
		9		3975			100	LB	1200	LB
ANTIFREEZE	7	7	335				2	GAL	100	GAL
ASBESTOS	4	1		2			2	LB	2	LB
		1			96	DRUM	96	DRUM	96	DRUM
		1			16	BAGS	16	BAGS	16	BAGS
		1			150	FT	150	FT	150	FT
CHLORINE	12	2	12				2	GAL	10	GAL
		9		4715			1	LB	4000	LB
		1			10	CONT	10	CONT	10	CONT
MISC	77	51	14563				0.25	GAL	3800	GAL
		20		75432			1	LB	45000	LB
		4			85	BBL	6	BBL	40	BBL
		2			314	DRUM	14	DRUM	300	DRUM
PAINT	7	7	834				1	GAL	770	GAL
PCBS	46	44	1295				8	OZ	400	GAL
		2		420			20	LB	400	LB
PESTICIDES	38	36	6155				2.5	OZ	1500	GAL
		2		317			4	LB	313	LB
PETRO PROD	520	514	251410				0.25	GAL	34000	GAL
		3		395			20	LB	250	LB
		3			750	TIRES	150	TIRES	350	TIRES
SEWAGE	0	0	0				0		0	
TOXICS	4	3	7				1	OZ	5	GAL
		1					100	BTRY	100	BTRY
UNKNOWN	8	7	3885				5	GAL	3000	GAL
		1			50	DRUM	50	DRUM	50	DRUM
total	741	741	279083	85256						

Within each spill group, the range of spill sizes is broad enough to pose a difficulty in averaging spills or projecting quantities from numbers of incidents. A single large spill often makes up the major portion of the total quantity spilled over the period of record. This is the case both in pollutant categories with relatively few entries as well as larger data groupings.

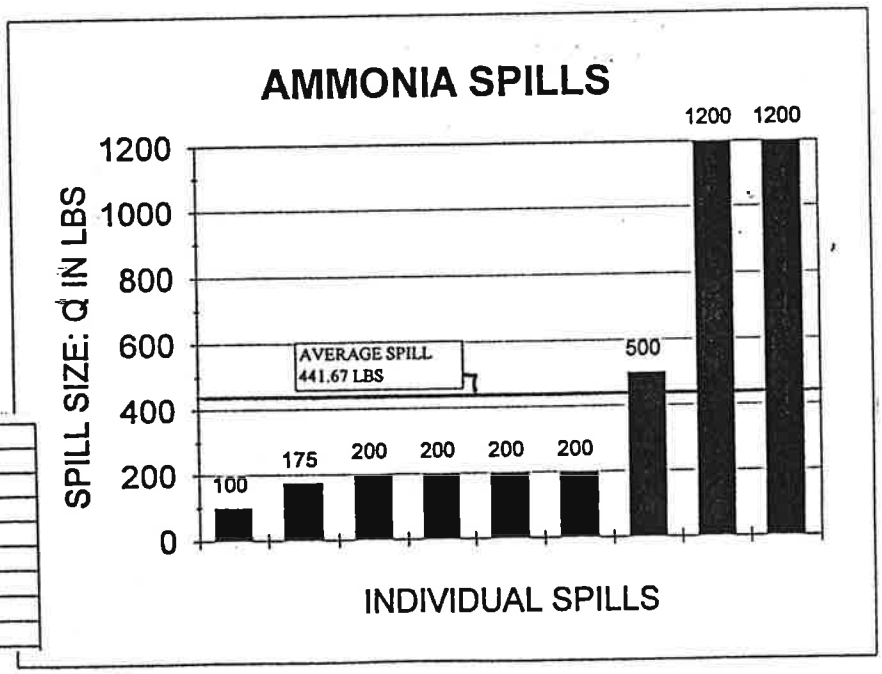
The tables below list all reported incidents for two smaller data groups, acid and ammonia spills. The associated histograms graphically display this same information. Among reported acid spills, the range in spill size is three orders of magnitude. In the case of ammonia spills, the reported quantities range by an order of magnitude. In both instances, a statistic representing average spill size would be very misleading.

Figure 28: Individual Spill Distribution

ACID, PHOSPHO	0.25	GAL
ACID, SULFURIC	2	GAL
ACID, SULFURIC	5	GAL
ACID, PHOSPHO	20	GAL
ACID, SULFURIC	30	GAL
ACID, SULFURIC	50	GAL
ACID, NITRIC	180	GAL
ACID, SULFURIC	200	GAL

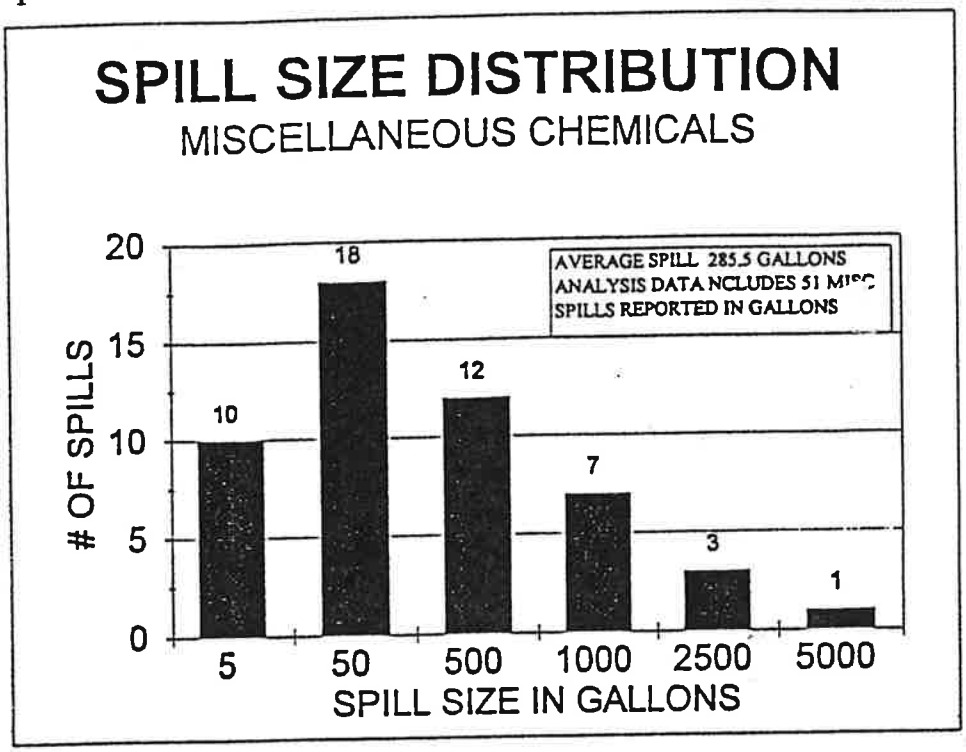


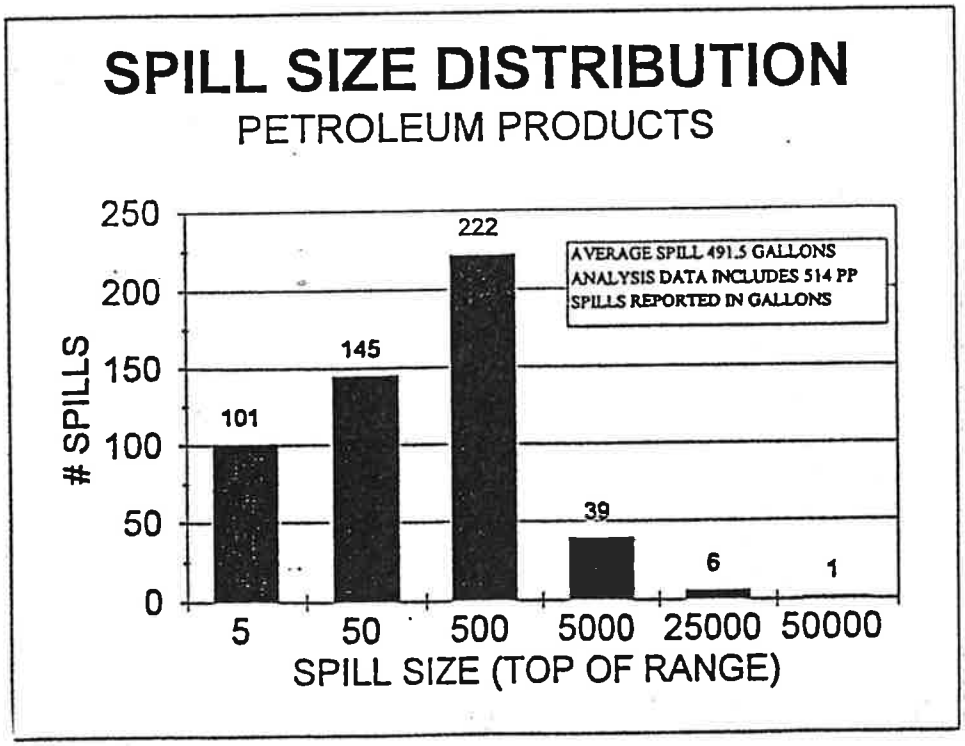
AMMONIA	100	LB
AMMONIA	175	LB
AMMONIA	200	LB
AMMONIA, ANHY	200	LB
AMMONIA	200	LB
AMMONIA	200	LB
AMMONIA, ANHY	500	LB
AMMONIA, ANHY	1200	LB
AMMONIA	1200	LB



The same phenomenon holds true for larger sets of spill data. Two cases in point are illustrated in the following histograms. These display the relative occurrence of spills within defined size categories for both miscellaneous chemicals and petroleum products, the two largest sets of spill data.

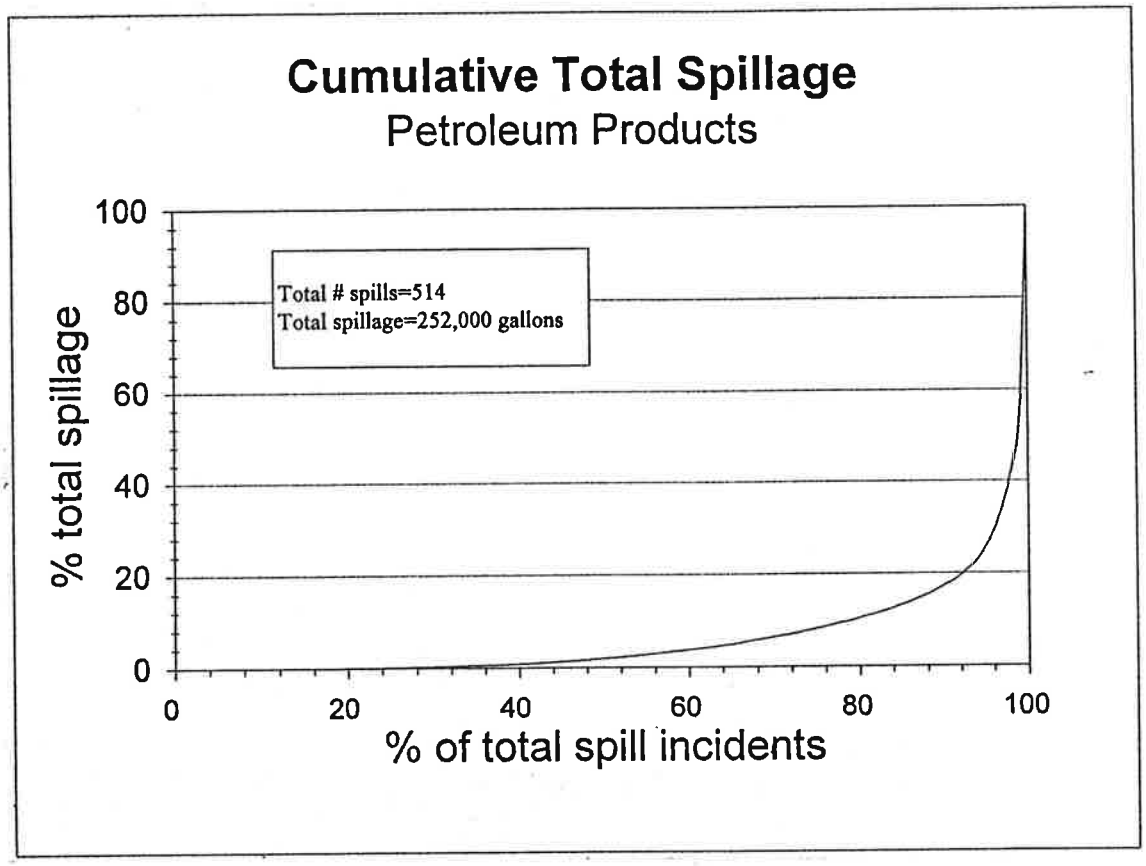
Figure 29: Spill Size Distribution





The relative impact of large spills on the total spillage is graphically displayed in Figure 30 below. In the data set containing spills of petroleum products, 514 spills were reported with quantities in gallons. Of these 514 spills, approximately fifty percent are cumulatively small enough to have only a trivial effect on the total spillage. In contrast the seven largest spills, which comprise only one percent of the data base in number of incidents, account for 130,000 gallons, which is more than fifty percent of the 252,000 gallon total spillage. The average spill size for the data set of 514 entries is 491 gallons. If the largest seven entries are excluded, (only 1% of the data points) the average of the 507 remaining data points drops to 240 gallons.

Figure 30: Cumulative Total Spillage



In addition to considering the distribution of spill sizes, the accuracy of the report has implications for the use of the quantitative data in projecting loadings or trends. The relative impact of large spills underscores the need for accuracy in reporting quantitative data related to spills. In addition, supplementary response and recovery information is essential. Because of the structure of the original data sets and data field definitions, it is in many cases unclear whether the quantities reported were of total original spillage or of total spillage less any recovered amounts. This information is not used to project overall loadings or totals without the additional information regarding recovery, because large spills have such a dramatic impact on total and average spill data, and reporting is inconsistent.

D. Trend Analysis

To examine trends in pollutant spills over time, the data were first examined on a regional basis. The three regions used were the Northern, Valley and Tidewater regions, corresponding to the State Water Control Board regions as defined in the county lists below.

Northern Region	Valley Region	Tidewater Region
Alexandria	Augusta	Northumberland
Arlington	Clarke	Westmoreland
Fairfax	Frederick	
Falls Church	Harrisonburg	
Fauquier	Highland	
King George	Page	
Loudon	Rockingham	
Manassas	Shenandoah	
Prince William	Staunton	
Stafford	Warren	
	Waynesboro	
	Winchester	

The number of spill incidents reported for each region is listed in the table below for each quarter as well as annually. Quarters are defined as months Jan-Mar, Apr-Jun, Jul-Sep, and Oct-Dec. In addition, the second table displays these same values for the counties within the Valley Region. As with some of the previously analyzed data, the small number of incidents in this latter data subset limits further analysis of individual county trends.

Figure 31: Quarterly and Annual Incidents

QUARTERLY AND ANNUAL INCIDENTS BY DEQ REGION

REGION	NR					VR					TW				
YR	1	2	3	4	TOTAL	1	2	3	4	TOTAL	1	2	3	4	TOTAL
1988	15	22	16	21	74	6	5	7	7	25	0	1	2	1	4
1989	22	40	36	38	136	10	11	11	7	39	0	1	1	0	2
1990	34	24	32	27	117	4	7	6	6	23	0	0	0	2	2
1991	27	36	29	31	123	12	10	11	6	39	1	1	2	0	4
1992	19	39	28	35	121	11	4	6	4	25	0	1	2	4	7
AVG	23.4	32.2	28.2	30.4	114.2	8.6	7.4	8.2	6	30.2	0.2	0.8	1.4	1.4	3.8

QUARTERLY AND ANNUAL INCIDENTS BY COUNTY WITHIN THE VALLEY REGION

quarter/yr	1	2	3	4	1988	1	2	3	4	1989	1	2	3	4	1990	1	2	3	4	1991	1	2	3	4	1992
AUGUSTA	2	2	6	1	11	2	4	3		9		2	3	2	7	5	1	2	4	12	6	1	1	1	9
CLARKE					0	1			3	4					0					0	1				1
FREDERICK		1		2	3		2	1	2	5	2	2			4	1		4		5	1	1			2
ROCKINGHAM	3	1	1	3	8	4	1	4		9		2	1		3	1	3	4	1	9	3	1	4	1	9
SHENANDOA				1	1	2	2	3	1	8	1	1	1	1	4	2	3	1	1	7		1			1
PAGE		1			1	1	2		1	4				3	3		2			2			1		1
WARREN	1				1					0	1		1		2	3	1			4				2	2
VR TOTAL	6	5	7	7	25	10	11	11	7	39	4	7	6	6	23	12	10	11	6	39	11	4	6	4	25

The regional data are examined graphically in three ways in the following line graphs. Initially data were plotted for each region, as well as Virginia Potomac Basin totals. Secondly, the data were reorganized by season to look for trends within the annual period. The third graph examines seasonal activity for the Valley Region only.

The first line chart, Trend Analysis, displays number of spill incidents over the period of analysis in quarterly increments. The results drawn from the first analysis section on number of incidents are displayed again here. Clearly, spill incidents in the Northern Region are most frequent, followed by the Valley and Tidewater regions, respectively. The number of spills in the Virginia Potomac basin is dominated by the activity in the Northern Region. The metropolitan area accounts for the majority of spills in any given year or quarter. Further, the pattern of spill activity in this region alone dictates the pattern of spills in the Virginia Potomac basin over time.

The number of spills displayed during the period of analysis fluctuates widely with little indication of increasing or decreasing trend.

The second chart displays spill data organized into seasonal activity. Again, data values fluctuate over time, both between and within seasonal groupings. There do appear to be mild seasonal variations with the first quarter generally being the season of lowest activity. Within seasons over time, the Northern Region data also seem to be generally increasing during the fourth quarter and decreasing during the third. The most distinct trend is in the low values of forth quarter spill activity in the Valley Region.

The third graph presents seasonal activity in the Valley Region. As in the preceding figure, but all the more clear here, fourth quarter activity in this region stands out as distinctly different. Fourth quarter activity is not only lower, on average, than all others, but much more consistent. While data for the other seasons vary widely and without apparent trend, a low and decreasing trend is apparent in these months. This conclusion should again be qualified with a reminder about the limited number of data points. As in the case of quantity analysis where averages or totals can be dominated by a single large incident, a single season with a comparatively large number of spills would cause an 'average' value to be misleading. In this case the data range in value from only four to seven incidents in a seven county region, making something as simple as bad road conditions and a handful of accidents highly significant. Yet, keeping this in mind, these data still represent the most distinct trend present in the data set.

Figure 32: Trend Analysis

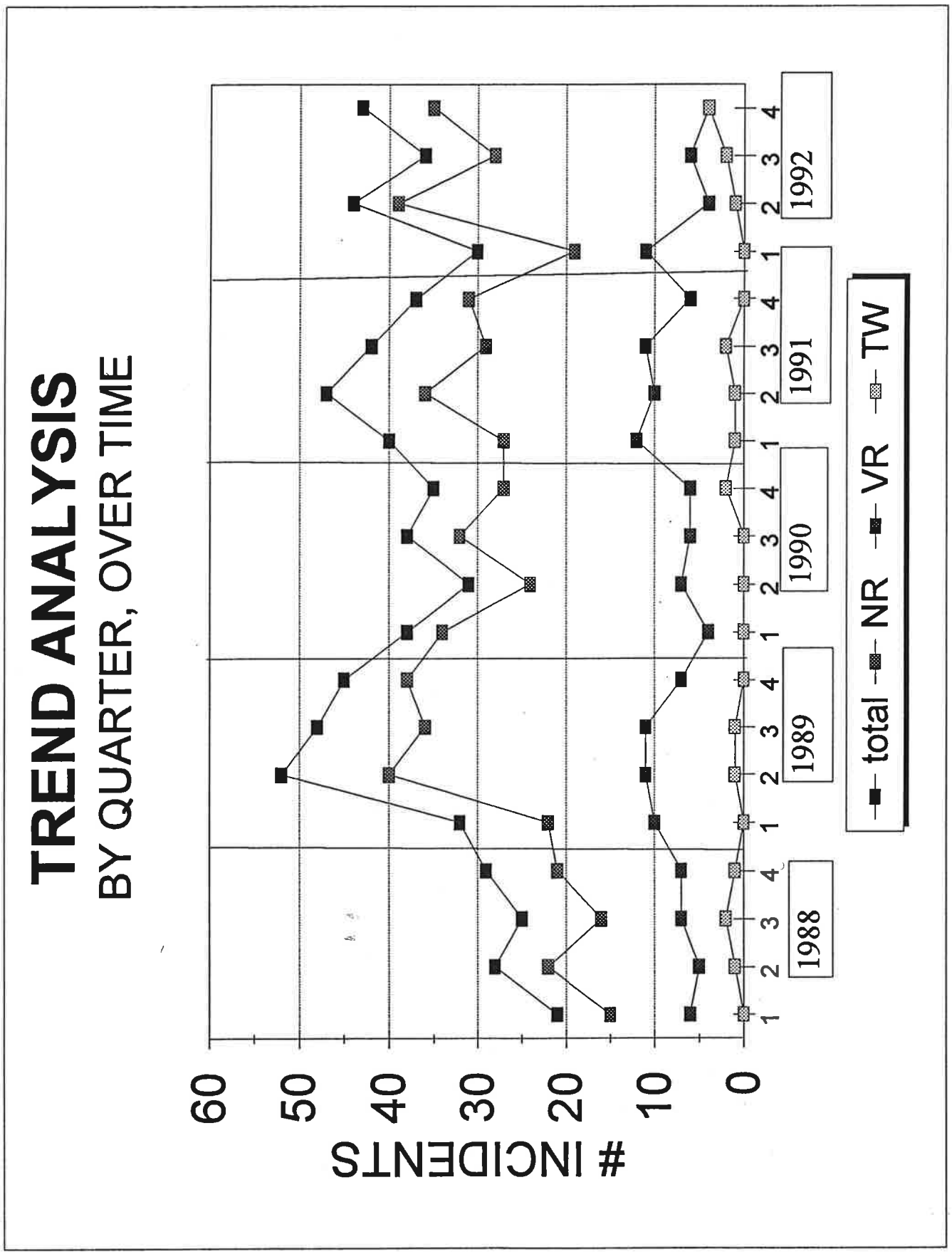


Figure 33: Seasonal Analysis

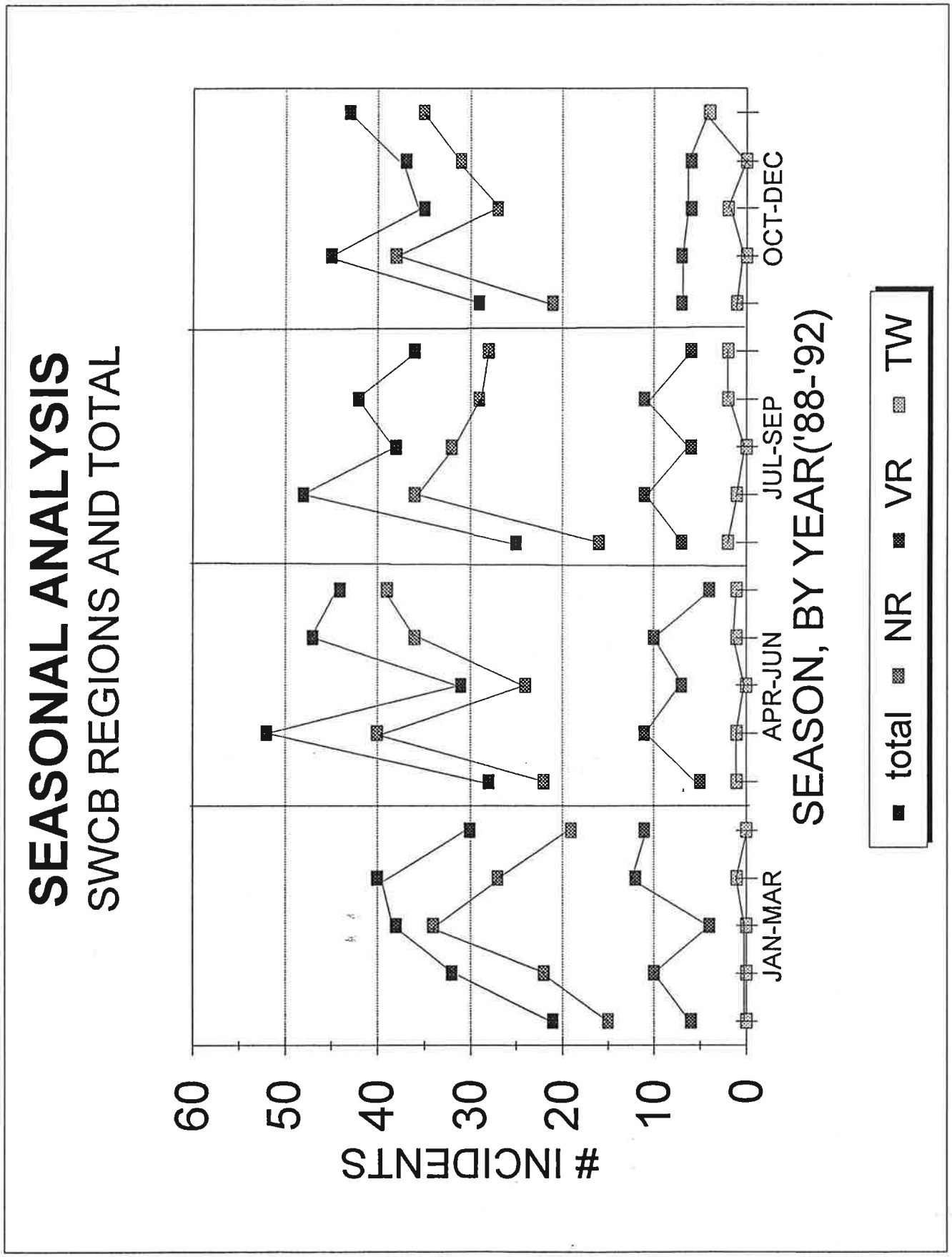
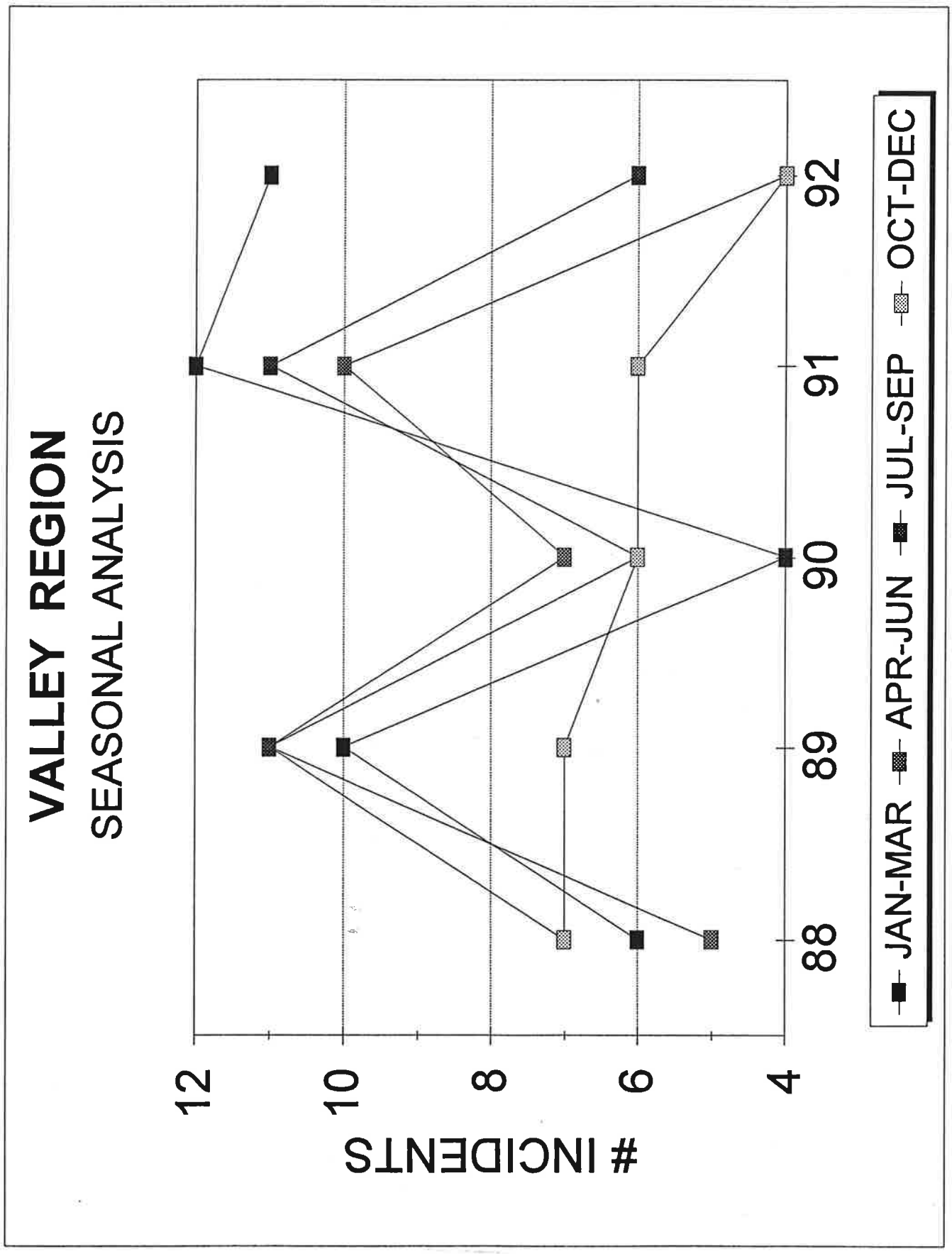


Figure 34: Valley Region Seasonal Analysis



IV. Conclusions

The original goals of the spill analysis project were two-fold; first, to use information from the data to indicate directions for pollution prevention programs, and secondly to utilize quantitative data to supplement current pollutant loading inventories. While general observations can be made about the way in which accidental spills are occurring, what they are, and when they happen, little quantitative information can be directly withdrawn from these data. Rather than directly fulfill the original project goals, the data analysis has pointed out the strengths and weaknesses of the way in which data are currently collected. The need for, and necessary structure of, a data set that could provide such information are much more evident as a result of this analysis.

A. Pollution Prevention

To target the source of pollutant spills, attention must focus on where, when and how the incidents occur. In order to design a pollution prevention program, the frequency of incidents must be considered the dominant parameter over quantity. As was demonstrated in the quantitative analysis, total and average quantities are often dominated by a few catastrophically large incidents. While eliminating a handful of large incidents would dramatically reduce the quantity of pollutant discharged through spills, large spills do not originate through a common mode or location, as distinct from smaller incidents. Therefore if the goal was one of pollution reduction, rather than prevention, recovery efforts would need to be addressed. The shortfall of this approach is that it targets remediation after environmental damage rather than prevention. To reduce both the total number and quantity of spills, before environmental impact, prevention programs must identify and address the most frequent causes of spills.

The incident analysis clearly indicated that the bulk of spill incidents occur in the metropolitan area. More specific locational information is not presently available with greater detail than county level in the current data base. Locational information was provided for some data according to the mode category of the original data. Specifically, most fixed container incidents were identified by specific location with local addresses for residential storage tank leaks or business name and address for commercial leaking underground storage tanks.

Fixed container incidents also composed the bulk of the reported incidents overall. Additionally, in the fixed container category, textual information provided a greater level of detail on incident cause than in other modes. Comments attached to these data entries often listed leaking tank, bad valve, leak in feeder line, etc. Such specific information is valuable in targeting prevention programs but was inconsistently available. In general a closer examination of container incidents is warranted. Prevention recommendations might include more frequent inspection and replacement requirements.

Dumping was the second most prevalent mode of pollution incidents in the larger data base. This category represents a long standing problem, with regulations and enforcement mechanisms already in place. Pollution reduction through this source requires increased efforts in public

awareness and enforcement.

Highway incidents represent the third most frequent category of pollutant incidents. Prevention of highway incidents is dependant on their occurrence as accidents, equipment or operator failure. In the case of highway accidents leading to pollutant discharge, additional information on exact location might target particularly hazardous routes or stretches of roadway. Similarly, time of day would be a revealing piece of information. Time of day was listed on many reports, however, it was unclear whether the time listed pertained to the incident occurrence or filing of the report. The Coast Guard data was the only data set which specifically requested both incident and report times. More detailed, and more consistent reporting of highway incidents is necessary to focus prevention efforts on this mode of incident.

Almost across the board, additional information is needed in order to target prevention programs. More than additional data fields, existing data fields need to be filled out completely and consistently on incident reports. Any supplemental information provided, regardless of mode would further refine prevention efforts.

B. Inventory Augmentation

As an objective of this study, the augmentation of loading data in pollutant inventories will remain unfulfilled for two reasons. First, only about thirty percent of the spill records in the working data base contained information on quantity spilled. Where quantities were available, they were reported in a variety of units (pounds, gallons, etc.). Secondly, the distribution of spill sizes, coupled with this incomplete quantitative information, made extrapolation of loads too uncertain.

Due to the wide range in the amounts spilled, and the dominant influence of a few large spills, average values were not extrapolated to total quantities spilled. Additionally, it is suspected that there may be a bias in the reporting of quantity information in favor of large spills that would further bias any projection of current data. Larger spills are more likely to be reported than smaller incidents due to the public vs private nature of large discharges, i.e., more people are exposed or involved, they are often accident related, and happen in business arenas where reporting requirements are more widely known. In addition to being more frequently reported, quantity information is more readily available from frequent inventories; through gauges on trucks or tanks, knowledge of payloads or estimation based on cleanup requirements. Finally, use of average spill information may be biased by the quantity estimation of total spill when significant amounts of pollutant are potentially recoverable. The presumed bias of the data set makes us reluctant to use the spilled quantities as watershed loading information.

Though the data available on quantities of release appear sparse and biased, there is still some interesting information to be gained by comparing the available data to an existing inventory of regulated releases. To do this, the Chesapeake Bay Basin Toxics Loading and Release Inventory of 1994 was used. This inventory is an initial compilation of data on point

and non-point releases throughout the Chesapeake Bay Basin. The inventory is a compilation of data from a variety of sources, originally collected for a variety of purposes. As such, the data in this inventory exhibits some similar shortcomings and inconsistencies as the spill data. The inventory authors caution that because of this, the estimates included in this initial inventory "are likely to be no better than order-of-magnitude estimates".

In order to get a feel for the comparative magnitudes of regulated discharges and spills, data on point source toxics loads were extracted from the Bay report. Specifically, where data were broken down by river basin and state, (Chesapeake Bay Basin Toxics Loading and Release Inventory, Chesapeake Bay Program, March 1994, Table 4, pg 95-104), a list of twenty-one toxics and their associated annual loads to the Potomac River was used for comparison.

Figure 35 below presents the list of toxics extracted from the bay report along with similar data taken from the spills data bases. Under Va Spill Data in the figure, the first column lists the number of spill incidents involving the toxic listed. The second column represents the number of incidents in which quantity was reported. The third and forth columns present total quantities and reporting units and the final comment field lists the sizes of individual spills or other pertinent data related to the chemical, compound, or mix.

Figure 35: Comparison of Spill and Annual Release Data

CBP Toxics Inventory			Va Spill Data				
chemical	annual		alldata	posq			
	load(lbs)		# rpts	# rpts	total Q	units	comment
1,1,1-Trichloroethane	371		2	1	55	gal	
1,4-Dichlorobenzene	40		1	1	1	gal	
Arsenic	45		0	0			
Benzene	82		1	1	125	gal	alkabenzene
Bis(2-ethylhexyl)phthalate	222		0	0			
Cadmium	180		0	0			
Chloroform(trichloromethane	49		0	0			
Chromium	705		1	0			
Copper	1176		3	0			
Cyanide	2259		1	1	400	gallons	cyanide plating solution
Ethylbenzene	104		1	0			
Lead	1470		6	1	100	batteries	battery acid
Mercury	2		7	2	16	oz	1oz, 15oz
Methylene chloride	307		3	2	13635	lbs	135lbs,13,500lbs
Nickel	342		1	0			nickel sulfate
Selenium	26		0	0			
Silver	88		0	0			
Tetrachloroethene(-ylene)	13		4	2	112.5	gallons	12.5gal,100gal
Toluene	97		1	1	40	barrels	toluene mix
Trichloroethene(--ylene)	273		0	0			
Zinc	19004		1	0			zinc oxide
		total	33	12			

Of the twenty-one toxics listed in the bay report, fourteen are found in the spills data base. Quantitative data is available for only nine. In addition, the units used in reporting the quantitative data that was available were incompatible with the bay data in all cases but two. Because spill reports do not require reporting of concentrations or purity of chemicals, coupled with the fact that many spills involve mixes of more than one constituent, translating barrels or gallons into pounds is not possible.

It is interesting, however, to look at the one case in which data are directly comparable between the two data bases, discharge of Methylene Chloride. In this instance, two spills reported quantities of 135 and 13,500 pounds, an overwhelming quantity in comparison to the annual load of 307 pounds. These data show a single incident discharging approximately forty-four times the annual load. In addition to grossly overshadowing annual loads, large spills such as this have attendant environmental effects due to the shock or slug of pollutant entering the river system.

The conclusion to be drawn from this exercise is that utilizing spill data in tandem with annual discharge data provides information and insight into environmental effects of toxics. It also underscores the need for standardized reporting and supplementing currently collected data fields with more detailed quantitative information.

C. Data Collection Recommendations

As discussed in the pollution prevention section above, the first level of data refinement necessary to make complete use of spill data is the complete and consistent entry of data into existing fields. Initial data screening (being provided data field names available on the various agency reports) led us to believe that a wealth of data was available. Only on close examination of the individual entries did the sparsity of data reveal itself. Specific additional recommendations by data field are listed in Figure 36 as well as in the text which follows.

In each instance an effort is made to restrict the range of entries in each data field to improve consistency and completeness. To this end, where feasible, a multiple choice format is suggested. In all cases, whether multiple choice or some other format option is suggested, an attempt is made to separate lack of data from blank entries. This is done by offering unknown, unavailable or other options in the multiple choice listings. The specific issue this targets is illustrated as case in point through the lack of entries in the current data base under recovery. In the majority of reports this was left blank or the name of a recovery firm was listed. It was the rare report that provided any information on quantities recovered. It was unclear whether a blank data field meant no recovery or whether the information was just not provided or not available. At the same time, it was unclear even in instances where a recovery firm was listed, whether action was taken and/or any material recovered. As this information is vital in determining net discharge to the environment, an effort must be made to distinguish blank fields from lack of available information.

Figure 36: Sugested Report Parameters and Specifications

Parameter	Format Specifications
Time and Date of Incident	Time of spill or incident initiation, Beginning and end of discharge time if available
Time and Date of Report	Time initial report was received
Recording Agency	Agency Filing incident report
Report Source	Information source regarding incident
Location	Latitude and Longitude County for cross reference
Pollutant	Specific pollutant(s) from multiple choice listing with unknown or other available
Receiving Medium	Discharge to land, water, or combination
Mode of Release	Multiple choice from listing
Q Released	Q with units, recommending pounds or gallons only Specification of measured, estimated or unavailable(and why)
Recovery Action	Choice of notification or recovery If recovery, by whom
Q Recovered	Q with units, recommending pounds or gallons only Specification of measured, estimated or unavailable(and why)
Q not Recovered	Q with units, recommending pounds or gallons only Specification of measured, estimated or unavailable(and why)
Concentration	To translate liquid spills to loadings in lbs, Specified for liquids, with "not available" as option
Nearest Waterbody	Nearest down-hill stream or waterbody Distance to water if available

Time of incident is important in targeting prevention, mitigation and/or impacts effectively. In addition to the date field, time of incident needs to be consistently provided as distinguished from and in addition to time of report.

Location by county was used to complete this first level of data analysis. Again, to

effectively target prevention programs as well as to determine impacts, specific information on incident location needs to be recorded. This information is especially important in relation to certain modes of incidents as mentioned in relation to reducing highway incidents. Latitude-longitude coordinates should be considered as data requirements to facilitate digital mapping and GIS analysis of data.

In lieu of using categories for reporting, specific pollutant names should be recorded, and the use of standard codes, categories or specific chemical name needs to be uniform among reporting agencies. Utilizing a checklist format would assure consistency. Pollutant categories in addition to specific pollutants may be defined for analytical purposes.

Receiving medium provides information on environmental effects and loadings. This should be specified as land, water, or combination.

Mode data needs to be collected directly, rather than interpreted from comment fields on reports. Mode categories need to be defined and provided to recording agents for consistency. Multiple choice or checklist format again would assure consistency.

Efforts to collect quantitative data need special emphasis. In addition to more complete reporting of quantity spilled, a second field indicating quantity recovered needs to be considered. Similarly, quantity to water is a data field that needs inclusion on all reports. The local waterbody should be identified specifically if possible, with distance to nearest downhill waterbody provided. This information is important in refining the loadings to watersheds.

In addition to improved quantitative reporting, concentration information needs to be collected in relation to liquid spills in order to translate data into loading information consistent with existing monitoring efforts. Concentration information should be available from the pollutant source, though "not available" should be a report option to distinguish lack of data from incomplete reporting.

One final consideration in relation to improved data collection is the maintenance of reported data in a single location. Consolidating the reporting efforts would make future analysis more fruitful, as well as relieving duplicate report filing by agencies. A data set similar to the one compiled for this analysis, with more complete reporting and a few additional data requirements would provide an analysis resource that could provide more insight and assistance into pollution prevention efforts.

The recommendations that have been made are based on review of existing data and are offered only as a first pass at improved reporting. The report form must be reviewed by field personnel who gather data, as well as potential users of the data, to refine the specifications.

APPENDIX

APPENDIX: ALLDATA SORTED BY POLLUTANT											
AGE	DATE	TIME	SW	COUNTY	MOD	Q	UNIT	H2OQ	UNI	WATERWA	POLLUTANT
DES	09/08/92	1020	VR	PAGE	FC			N			ACID
DES	01/23/90	1432	NR	PRINCE WIL	H/C			0			ACID - BATTERY
DES	01/10/91	1418	NR	ALEXANDRI	P					STORM DR	ACID BASED PRODUCT
DES	01/27/91	0015	NR	PRINCE WIL	D					BULL RUN	ACID RUNOFF AND LEACHA
DES	09/06/89	1909	NR	PRINCE WIL	FC			N			ACID, MURIATIC
DES	09/28/89	10500	NR	STAFFORD	FC			N			ACID, MURIATIC
DES	12/02/90	1222	NR	FALLS CHU	FC			0			ACID, MURIATIC
DES	08/13/92	1109	NR	LOUDOUN	FC			N			ACID, MURIATIC
DES	11/13/91	1305	NR	FAIRFAX	FC					N	ACID, ACETIC (80%)
DES	11/21/91	1506	NR	ALEXANDRI	FC					N	ACID, ACETIC , MERCURY
DES	01/21/88	0959	NR	ALEXANDRI	R/C			~		~	ACID, HYDROCHLORIC
DES	08/21/88	1841	NR	ALEXANDRI	R/C			N		~	ACID, HYDROCHLORIC
DES	02/18/92	1729	VR	STAUNTON	FC			N			ACID, HYDROCHLORIC
DES	11/11/92	1648	NR	FAIRFAX	FC			N			ACID, HYDROCHLORIC
EPA	05/23/88	0	NR	LOUDOUN	FC	0		0			ACID, HYDROCHLORIC & S
DES	07/03/89	1122	NR	LOUDOUN	H/C			N			ACID, HYDROFLUOSILIC
DES	05/03/89	1919	NR	FAIRFAX	FC			Y		STORM DR	ACID, LOW GRADE
DES	09/28/89	0954	NR	STAFFORD	H/C			N			ACID, MURIATIC
DES	07/10/90	1149	NR	LOUDOUN	H/C			0			ACID, MURIATIC
EPA	06/08/90	0	NR	FAIRFAX	D	0	U	0		NONE	ACID, NITRIC
DES	01/25/89	1150	VR	WAYNESBO	FC	180	G	N			ACID, NITRIC
DES	08/20/90	1500	NR	FAIRFAX	D			1		STORM DR	ACID, NITRIC ACID AND DE
DES	08/13/90	1151	NR	MANASSAS	FC			1		UNKNOWN	ACID, NITRIC AND FERRIC
DES	10/15/92	2012	NR	PRINCE WIL	R/C			N			ACID, PHOSPHORIC
DES	10/05/89	1249	VR	FREDERICK	H/C	20	G	N			ACID, PHOSPHORIC
DES	04/22/92	1412	NR	PRINCE WIL	H/C	1	Q	N			ACID, PHOSPHORIC
DES	10/14/91	1727	NR	ARLINGTON	FC					N	ACID, SODIUM HYDROXIDE
DES	05/23/88	0711	NR	LOUDOUN	FC			N		~	ACID, SULFURIC
DES	11/07/88	1727	VR	FREDERICK	FC	30	G/H	N		~	ACID, SULFURIC
DES	10/05/89	1539	VR	FREDERICK	H/C	5	G				ACID, SULFURIC
DES	03/22/90	1547	VR	WARREN	H/E	200	G	0			ACID, SULFURIC
EPA	04/22/91	815	VR	HARRISONB	FC	50	G	0		NONE	ACID, SULFURIC
DES	03/26/92	1152	VR	WAYNESBO	FC	2	G	Y			ACID, SULFURIC
DES	08/21/92	0948	TW	NORTHUMB	H/C			N			ACID, SULFURIC
DES	04/14/89	1044	NR	ARLINGTON	FC						ACID, SULFURIC 27% - BAT
DES	12/30/90	2047	NR	LOUDOUN	FC			0			ACID, SULPHAMIC /HYDRO
DES	02/23/92	1236	NR	STAFFORD	FC			N			ACIDS
DES	02/02/89	1748	NR	FAIRFAX	D	7.5	G	Y		STORM DR	AMMONIA
EPA	04/04/89	1830	VR	PAGE	FC	200	LB	0		NONE	AMMONIA
DES	04/06/89	1526	VR	ROCKINGHA	FC	200	LBS				AMMONIA
DES	09/29/89	1507	VR	ROCKINGHA	FC	100	LBS	N			AMMONIA
DES	02/06/90	1810	VR	WINCHESTE	P			0			AMMONIA
DES	04/14/90	1031	VR	HARRISONB	P	1200	LBS	0			AMMONIA
DES	10/16/90	1711	VR	ROCKINGHA	FC			0			AMMONIA
EPA	10/16/90	1600	VR	ROCKINGHA	FC	0	U	0		NONE	AMMONIA
DES	05/28/91	0957	VR	ROCKINGHA	P					N	AMMONIA
DES	08/29/91	0425	VR	ROCKINGHA	FC	175	LBS			N	AMMONIA
DES	11/20/91	1542	VR	SHENANDO	P					N	AMMONIA
DES	05/04/92	1007	NR	ALEXANDRI	P	200	LBS	N			AMMONIA
DES	06/18/92	1143	VR	ROCKINGHA	FC			N			AMMONIA
EPA	04/14/90	752	VR	ROCKINGHA	FC	1200	P	0		NONE	AMMONIA, ANHYDROUS
DES	09/25/90	1453	NR	ARLINGTON	FC			0			AMMONIA, ANHYDROUS
EPA	05/27/91	1650	VR	ROCKINGHA	FC	500	P	0		NONE	AMMONIA, ANHYDROUS

EPA	08/29/91	345	VR	HARRISONB	T	200	P	0		NONE	AMMONIA, ANHYDROUS
EPA	11/20/91	1445	VR	SHENANDO	FC	0	U	0	U		AMMONIA, ANHYDROUS
DES	08/13/92	1628	NR	ARLINGTON	FC			N			AMMONIA, ANHYDROUS
DES	04/23/92	2312	VR	WINCHESTE	FC			N			AMMONIA, ANHYDROUS, LI
DES	12/22/92	0728	NR	LOUDOUN	P			Y		STREAM	AMMONIUM HYDROXIDE
DES	09/11/91	1355	NR	LOUDOUN	T	100	G			N	AMMONIUM HYDROXIDE
CG	02/28/90	203	NR	PRINCE WIL	FC	1500	LBS	Y	U		AMMONIUM PERCHLORATE
DES	05/14/91	1607	NR	MANASSAS	H					N	AMMONIUM PERCHLORATE
DES	10/04/91	2300	VR	SHENANDO	FC					N	AMMONNIA, HOUSEHOLD
DES	08/18/90	1132	NR	PRINCE WIL	D			1		STORM DR	ANTI FREEZE
EPA	07/01/89	0	NR	FAIRFAX	D	0	U	0	U	SEWER SY	ANTI-ETHYL GLYCO
EPA	09/12/90	815	NR	FAIRFAX	D	40	G	0		UNNAMED	ANTI-ETHYL GLYCO
EPA	11/02/90	1300	NR	FAIRFAX	D	0	U	0		STORM SE	ANTI-ETHYL GLYCO
DES	11/02/90	1346	NR	FAIRFAX	D			1		STORM DR	ANTI-ETHYL GLYCO
EPA	08/26/91	730	NR	ARLINGTON	D	0	U	0		NONE	ANTI-ETHYL GLYCO
DES	09/30/91	1752	NR	ARLINGTON	D					SEWER	ANTI-ETHYL GLYCO
EPA	09/30/91	1700	NR	FAIRFAX	D	0	U	0		STORM SE	ANTI-ETHYL GLYCO
EPA	03/08/92	1750	NR	FAIRFAX	D	2	G	2	G	STORM SE	ANTI-ETHYL GLYCO
DES	04/30/92	0840	NR	FAIRFAX	FC			N			ANTI-ETHYL GLYCO
EPA	05/02/92	1630	NR	FAIRFAX	D	100	G	100	G	STORM DR	ANTI-ETHYL GLYCO
DES	05/02/92	1815	NR	FAIRFAX	D	100	G	N			ANTI-ETHYL GLYCO
EPA	07/25/92	1550	NR	FAIRFAX	D	0	U	0	N		ANTI-ETHYL GLYCO
EPA	08/02/92	1630	NR	PRINCE WIL	D	0	U	0	U	STORM DR	ANTI-ETHYL GLYCO
EPA	09/23/91	735	NR	FAIRFAX	FC	25	G	0		NONE	ANTI-ETHYLENE GLYCOL
DES	11/19/91	1900	VR	FREDERICK	H/C					N	ANTI-ETHYLENE GLYCOL
EPA	06/29/92	1220	NR	FALLS CHU	T	0	U	0	U		ANTI-ETHYLENE GLYCOL
DES	07/03/92	1035	NR	ARLINGTON	H/C			Y		POTOMAC	ANTI-ETHYLENE GLYCOL T
EPA	10/04/88	1130	NR	ALEXANDRI	U	0	U	0		STORM DR	ANTI-FREEZE
EPA	02/06/89	730	NR	FAIRFAX	U	0	U	0		SPRING HO	ANTI-FREEZE/DYE
DES	10/04/88	1318	NR	ALEXANDRI	FC			Y		CAMERON	ANTIFREEZE
DES	09/12/90	0858	NR	FAIRFAX	D	40	G	1		CREEK	ANTIFREEZE
DES	12/04/91	0835	NR	FAIRFAX	D					STORM DR	ANTIFREEZE
DES	07/25/92	1618	NR	FAIRFAX	FC			N			ANTIFREEZE
DES	10/16/92	1853	NR	FAUQUIER	H/C			Y		DRAINAGE	ANTIFREEZE
DES	06/03/91	2022	NR	FAIRFAX	D	27.5	G			CREEK	ANTIFREEZE
DES	05/03/88	1100	VR	PAGE	FC			N		~	ASBESTOS
DES	06/30/88	1703	NR	ALEXANDRI	FC			~		~	ASBESTOS
EPA	08/14/89	0	NR	PRINCE WIL	H/E	0	U	0		NONE	ASBESTOS
DES	08/15/89	1108	NR	PRINCE WIL	T			N			ASBESTOS
DES	04/29/90	1201	NR	FAIRFAX	D			0			ASBESTOS
DES	05/07/91	1038	NR	FAIRFAX	D					N	ASBESTOS
EPA	05/07/91	0	NR	FAIRFAX	D	0	U	0		THREATEN	ASBESTOS
DES	06/22/91	0935	NR	FAIRFAX	FC					N	ASBESTOS
EPA	08/19/91	1000	VR	CLARKE	D	0	U	0		NONE	ASBESTOS
DES	08/28/92	1004	NR	STAFFORD	FC			Y		ACCECECK	ASBESTOS
DES	09/11/92	1527	NR	STAFFORD	H	16	BAG	N			ASBESTOS
DES	09/22/92	1338	VR	AUGUSTA	P	2	LBS	N			ASBESTOS
DES	11/11/92	2350	NR	ARLINGTON	FC			N			ASBESTOS
DES	11/11/92	2350	NR	ARLINGTON	FC			N			ASBESTOS
DES	06/21/91	1928	NR	STAFFORD	D					N	ASBESTOS (TONS)
EPA	10/24/89	0	NR	FAUQUIER	D	96	D	0	U	UNKNOWN	ASBESTOS CONT LIQUIDS
DES	02/14/92	0001	NR	ALEXANDRI	FC			N			ASBESTOS FIBERS
DES	02/20/91	1615	NR	PRINCE WIL	D					N	ASBESTOS RELATED MAT
DES	08/23/91	1935	NR	ARLINGTON	FC					N	ASBESTOS ROOFING AND
DES	06/03/91	1558	NR	FAIRFAX	D	150	FEET			N	ASBESTOS SIDING SHINGI
DES	07/16/88	0542	TW	NORTHUMB	FC			Y		CHESAPEA	ASBESTOS, PP-GASOLINE

DES	12/12/91	1820	NR	FAIRFAX	D					N	ASBESTOS, SOLVENTS, OT
DES	05/19/89	0948	NR	ALEXANDRI	D			Y		STORM DR	CHLORINATED POOL WATE
EPA	05/18/89	1600	NR	ALEXANDRI	D	0	U	0		SEWER SY	CHLORINATED WATER
DES	11/08/88	1445	VR	PAGE	FC			N		~	CHLORINE
EPA	05/05/89	0	NR	FAIRFAX	FC	0	U	0		NONE	CHLORINE
DES	05/05/89	1345	NR	ARLINGTON	FC			N			CHLORINE
EPA	08/14/89	1200	NR	FAIRFAX	U	0	U	0		LAKE BRAD	CHLORINE
DES	11/03/89	1337	NR	FAIRFAX	FC			N			CHLORINE
EPA	08/09/90	945	NR	FAUQUIER	FC	1	P	0		NONE	CHLORINE
DES	08/30/90	1034	VR	SHENANDO	FC	250	LBS	0			CHLORINE
EPA	09/12/90	900	NR	PRINCE WIL	U	4000	P	0		NEADISCO	CHLORINE
DES	09/29/90	1859	NR	FAUQUIER	FC			1		SOUTH RUN	CHLORINE
EPA	06/12/91	550	NR	ALEXANDRI	T	0	U	0		NONE	CHLORINE
EPA	06/12/91	550	NR	FAIRFAX	FC	0	U	0		NONE	CHLORINE
EPA	06/30/91	1600	VR	SHENANDO	FC	150	P	0		NONE	CHLORINE
DES	06/30/91	1745	VR	SHENANDO	FC					N	CHLORINE
DES	08/06/91	1930	TW	NORTHUMB	FC					N	CHLORINE
EPA	03/10/92	930	VR	ROCKINGHA	H/E	40	P	0	N		CHLORINE
DES	03/24/92	1231	VR	HARRISONB	FC	225	LBS	N			CHLORINE
DES	11/22/92	2336	VR	ROCKINGHA	FC	14	LBS	N			CHLORINE
DES	02/03/88	1415	VR	ROCKINGHA	FC	15	LBS	N		~	CHLORINE
DES	08/02/88	1054	NR	PRINCE WIL	H/C			N		~	CHLORINE BASED SUBSTA
DES	04/14/89	1510	NR	ALEXANDRI	FC			N			CHLORINE GAS
DES	12/29/89	0924	NR	FAUQUIER	FC	10	LBS	N			CHLORINE GAS
DES	06/02/92	1956	NR	STAFFORD	FC			N			CHLORINE GAS RELEASE
EPA	08/24/89	2215	NR	ALEXANDRI	FC	0	U	0		NONE	CHLORINE LEAK
DES	07/11/88	1545	VR	AUGUSTA	FC	10	G	N		~	CHLORINE ON FIRE
DES	01/18/91	1551	NR	PRINCE WIL	FC	10	CON			N	CHLORINE, HTH POOL
DES	08/08/89	0110	NR	PRINCE WIL	FC			N			CHLORINE, PHOSPHORIC A
DES	06/09/92	1436	NR	LOUDOUN	FC	2	G	N			CHLORINE-POOL CHLORIN
DES	12/08/92	1430	NR	FALLS CHU	D			N			CHLORINE-POOL WATER
DES	05/19/92	1750	NR	FAIRFAX	FC			Y		CREEK	CHLORINE/WATER/MURIATI
EPA	06/18/90	1000	NR	PRINCE WIL	D	14	B	0		NONE	MISC-ACETONE
DES	04/14/92	1254	VR	AUGUSTA	H/C			N			MISC-ACETONE
DES	06/27/92	2329	VR	HARRISONB	H/C	55	G	N			MISC-ACETOPHENONE
DES	04/23/91	0420	NR	PRINCE WIL	H/C					N	MISC-ACRYLATE
DES	06/08/92	1157	NR	ALEXANDRI	FC	25	BAR	N			MISC-ACRYLIC LACQUER
EPA	04/07/90	150	VR	AUGUSTA	T	420	P	0		NONE	MISC-ACRYLONITRILE
EPA	09/30/88	1800	VR	WAYNESBO	FC	50	G	0		NONE	MISC-ACRYLONITRILE&ME
EPA	09/30/88	1800	VR	AUGUSTA	FC	50	G	0		NONE	MISC-ACRYLONITRILE/MET
EPA	10/06/89	1659	NR	PRINCE WIL	H/C	30	G	0		NONE	MISC-ACYLIMIDACOLINE
DES	08/25/92	0320	VR	SHENANDO	FC			N			MISC-ADHESTIVE
DES	08/29/91	0900	VR	SHENANDO	H/C					N	MISC-ADHESTIVE, FLAMMA
DES	07/14/92	2056	NR	FAUQUIER	FC	2.5	G	N			MISC-ALCOHOL AND FORM
DES	10/26/92	0743	NR	ALEXANDRI	D	12.5	G	Y		SEWER SY	MISC-ALCOHOL, ISOPROPY
DES	05/30/91	1820	NR	ALEXANDRI	P	125	G			N	MISC-ALKABENZENE
DES	06/23/89	1900	VR	AUGUSTA	H/C						MISC-AMINO ETHYL
DES	06/22/91	1858	NR	FAIRFAX	H/C					N	MISC-ARGON
EPA	06/22/91	0	NR	FAIRFAX	H/E	3800	G	0		NONE	MISC-ARGON (@ 150 DEG)
DES	08/10/91	2105	NR	FALLS CHU	D					N	MISC-BIOMEDICAL WASTE
DES	03/25/91	1250	VR	WAYNESBO	FC	1.5	LBS			N	MISC-BIPHENYL
EPA	03/10/92	900	VR	AUGUSTA	FC	1	P	0	N		MISC-BIPHENYL
DES	03/10/92	1019	VR	WAYNESBO	FC	1	LB	N			MISC-BIPHENYL
EPA	10/15/91	900	NR	FAIRFAX	U	1	G	0		NONE	MISC-BROMINE METHANOL
DES	10/31/91	0024	VR	SHENANDO	H/C	4	G			N	MISC-BUTYL ACRYLATE
DES	08/18/89	2357	VR	ROCKINGHA	FC			N			MISC-BUTYL MERCAPTAN

EPA	06/01/89	2345	VR	WARREN	R/V	0	U	0		NONE	MISC-CARBON DIOXIDE
DES	06/02/89	0025	VR	WARREN	R/C			N			MISC-CARBON DIOXIDE
DES	08/17/91	0950	NR	PRINCE WIL	H/C					N	MISC-CARBON DIOXIDE
DES	09/26/88	0511	NR	MANASSAS	R/C			~		~	MISC-CARBON DIOXIDE RE
DES	06/01/91	1629	NR	FAIRFAX	FC					N	MISC-CAUSTIC LIQUID
EPA	02/04/89	345	VR	PAGE	R/C	1	O	0		NONE	MISC-CAUSTIC SODA
DES	02/04/89	1016	VR	SHENANDO	R/C			N			MISC-CAUSTIC SODA/ SODI
DES	04/20/88	1153	VR	PAGE	FC			~		~	MISC-CEALITE
DES	04/26/88	1604	NR	PRINCE WIL	FC			N		~	MISC-CESEIUM 137
DES	04/29/91	1000	VR	WARREN	FC					N	MISC-CESIUM 137 (LOW LE
DES	04/20/88	1806	NR	FAIRFAX	FC	50	G	Y		STORM DR	MISC-CHEMICALS
DES	07/18/88	1734	NR	PRINCE WIL	FC			Y		OCCOQUAN	MISC-CHEMICALS
DES	11/10/89	1612	VR	WARREN	FC			Y		SHENANDO	MISC-CHEMICALS
DES	06/01/90	1330	NR	ARLINGTON	FC			0			MISC-CHEMICALS
DES	11/28/91	1830	VR	WAYNESBO	R/C					N	MISC-CHLORODIFLUOROM
DES	02/24/89	1245	NR	PRINCE WIL	H/C	215	G	Y		OCCOQUAN	MISC-CITRO CARPET CLEA
EPA	08/22/92	1600	VR	FREDERICK	D	0	G	0	G	LAKE ST CL	MISC-CITRONELLA, OUTDO
DES	05/13/90	1003	VR	WARREN	R/C			0			MISC-CLAY SLURRY
DES	10/25/91	1819	NR	PRINCE WIL	H/C					N	MISC-CLEANING COMPOUN
DES	08/31/92	1233	NR	ALEXANDRI	FC			Y		STORM DR	MISC-CLEANING SOLUTION
DES	08/12/89	0533	VR	ROCKINGHA	H/C			N			MISC-CLEANING SOLUTION
DES	03/19/88	2016	VR	WARREN	FC			N		~	MISC-CO2 IN DUMPSTER, O
EPA	11/10/88	1630	NR	FAIRFAX	U	1	G	0		STORM DR	MISC-COPIER TONER
DES	07/15/92	0147	VR	SHENANDO	H/C			N			MISC-CORROSIVE
DES	11/03/88	1442	NR	PRINCE WIL	H/C			~		~	MISC-CORROSIVE SOLVEN
DES	08/30/90	1025	NR	MANASSAS	H/C			0			MISC-CORROSIVES AND R
DES	05/15/91	1554	NR	PRINCE WIL	H/C						MISC-CORROSIVES, SODIU
EPA	04/29/91	0	NR	ALEXANDRI	U	0	U	0		POTOMAC	MISC-CREOSOTE
EPA	10/31/90	800	VR	WAYNESBO	T	400	G	0		SOUTHERN	MISC-CYCNIDE PLATING S
EPA	08/21/89	1200	VR	AUGUSTA	D	100	P	0		NONE	MISC-D008 HAZARDOUS W
DES	07/22/89	1905	NR	ALEXANDRI	FC			Y		FOUR MILE	MISC-DEGREASING SOLUTI
DES	06/29/90	2158	NR	FAIRFAX	D			1		CREEK	MISC-DETERGENT
EPA	03/21/92	1010	NR	ALEXANDRI	FC	0	U	0	U	HOLMES RU	MISC-DETERGENT
DES	03/16/89	1701	NR	STAFFORD	H/C			N			MISC-DICHLOROBUTENE P
DES	05/10/91	1502	VR	ROCKINGHA	FC	70	G			N	MISC-DIFLUBENZURON
DES	10/06/89	1743	NR	ARLINGTON	M			Y		FOUR MILE	MISC-DYE
EPA	02/23/89	0	NR	FAUQUIER	FC	1000	G	0		UNKNOWN	MISC-ETHYL ACETATE 2.5%
DES	05/06/92	1804	NR	FAIRFAX	FC			N			MISC-ETHYL BENZENE, XYL
DES	11/13/89	1637	TW	NORTHUMB	FC			N			MISC-ETHYL BROMIDE
DES	06/14/90	1444	NR	FAIRFAX	FC			0			MISC-FERRIC CHLORIDE
EPA	12/23/92	200	NR	FAIRFAX	T	1200	G	0	U	DRAINAGE	MISC-FERRIC CHLORIDE
EPA	12/23/92	100	NR	FAIRFAX	FC	1200	G	1200	G	POHICK CR	MISC-FERRIC CHLORIDE
DES	12/23/92	1000	NR	PRINCE WIL	T	750	G	N			MISC-FERRIC CHLORIDE
DES	08/06/90	1351	VR	WARREN	FC	20	LBS	0			MISC-FERROSILICON
EPA	09/22/92	200	VR	ROCKINGHA	FC	640	G	0	N		MISC-FERROUS CHLORIDE
EPA	07/23/91	1200	NR	FAIRFAX	H/C	0	U	0		NONE	MISC-FLAMMABLE LIQ & SO
DES	07/19/91	1748	NR	ALEXANDRI	FC					N	MISC-FLOOR SEALER
DES	09/29/88	1854	VR	WINCHESTE	FC			N		~	MISC-FORMALDEHYDE
DES	09/14/89	0822	VR	AUGUSTA	FC	100	LBS	N			MISC-HAZARDOUS WASTE
EPA	04/02/90	900	VR	AUGUSTA	T	0.1	G	0		NONE	MISC-HEXAMETHYLENEDIA
DES	04/02/90	1456	VR	WAYNESBO	R/C			0			MISC-HEXAMETHYLENEDIA
DES	06/26/91	1044	NR	ALEXANDRI	FC	5	G			N	MISC-HTS
DES	11/19/92	1623	NR	ALEXANDRI	FC	3	LBS	Y		POTOMAC	MISC-HYDRAZINE,
DES	08/22/88	1718	NR	FAIRFAX	FC			N		~	MISC-HYDRO CARBON GAS
EPA	02/11/89	230	NR	LOUDOUN	H/V	0	U	0		NONE	MISC-HYDROGEN PEROXID
DES	06/14/90	1610	VR	WARREN	FC			0			MISC-HYDROGEN SULFIDE

DES	05/20/90	0058	VR	SHENANDO	FC	1	G	0			MISC-HYPOCHLORITE
DES	01/21/89	1151	NR	ARLINGTON	M			Y		LONG BRAN	MISC-INDUSTRIAL PRODUC
DES	10/13/90	1128	VR	WARREN	FC			1		SHENANDO	MISC-INDUSTRIAL WASTE
DES	07/20/92	1335	NR	MANASSAS	FC	40	G	N			MISC-INK
DES	03/22/90	1307	NR	MANASSAS	P			0			MISC-INK SOLVENT
EPA	03/22/90	0	NR	PRINCE WIL	H/C	100	G	0		NONE	MISC-INK SOLVENT
DES	12/29/92	2257	NR	FAIRFAX	H/C	20	G	N			MISC-ISOPHORONE
DES	06/25/92	1224	NR	PRINCE WIL	H/C			N			MISC-ISOPROPANOL, DIME
DES	06/28/91	0050	NR	LOUDOUN	FC	2	G			N	MISC-KETONE BASED PAIN
DES	11/06/92	1802	NR	ALEXANDRI	FC			N			MISC-LIME
EPA	04/05/88	800	NR	PRINCE WIL	D	0		0		NONE	MISC-LIME SLURRY
DES	09/17/91	1422	VR	SHENANDO	H/C	7	TONS			N	MISC-LIME, HYDRATED
DES	10/05/92	1320	NR	FAIRFAX	D	35	G	N			MISC-MEDICAL WASTE
DES	06/17/91	1418	NR	FAUQUIER	H/C					N	MISC-METALHYDROXIDE
DES	09/08/92	1310	VR	ROCKINGHA	FC	45000	LBS	Y		SHENANDO	MISC-METHANOL
EPA	10/19/88	0	VR	AUGUSTA	U	135	P	0		NONE	MISC-METHLENE CHLORID
DES	10/15/91	0927	NR	FAIRFAX	FC					N	MISC-METHYL BROMIDE
DES	10/15/92	1720	VR	ROCKINGHA	FC			N			MISC-METHYL CHLORIDE
EPA	10/15/92	1645	VR	ROCKINGHA	D	0	U	0	N		MISC-METHYL CHLORIDE
DES	12/06/90	1649	NR	PRINCE WIL	FC			0			MISC-METHYL ETHYL KETO
EPA	10/12/90	1800	VR	WINCHESTE	H/E	0	U	0		UNKNOWN	MISC-METHYL HYDRAZENE
EPA	10/12/90	1800	VR	FREDERICK	H/E	0	U	0		UNKNOWN	MISC-METHYL HYDRAZINE,
DES	09/18/89	1745	VR	ROCKINGHA	FC	700	G	N			MISC-METHYL ISOBUTYL K
CG	06/10/89	130	VR	WARREN	T	600	G	600	G		MISC-METHYL METHACRLA
CG	06/10/88	1200	VR	AUGUSTA	D	13500	LBS	0	U		MISC-METHYLENE CHLORI
DES	03/23/88	1358	NR	FAIRFAX	FC			N		~	MISC-METHYLENE CHLORI
DES	10/12/90	2024	VR	FREDERICK	H/C			0			MISC-METHYLHYDRAZINE
DES	04/26/89	0200	VR	FREDERICK	H/C			N			MISC-METHYLMETHACRYL
DES	05/19/92	1738	NR	FAIRFAX	D			Y		CREEK	MISC-ML STRIPPER CONTA
DES	04/30/90	0544	NR	LOUDOUN	FC			0			MISC-MORPHOLINE - MORP
DES	07/24/90	1627	NR	FAIRFAX	M/C	55	G	1		ACOTINK C	MISC-NAPTHA
DES	05/08/90	1713	NR	FAIRFAX	FC			0			MISC-NAPTHA/WATER PRO
DES	01/03/89	1515	NR	ALEXANDRI	P			N			MISC-NATURAL GAS
DES	09/05/89	0829	NR	FAIRFAX	FC			N			MISC-NATURAL GAS
DES	12/03/90	1100	NR	FAIRFAX	P			0			MISC-NATURAL GAS
DES	03/25/91	0652	NR	FAIRFAX	FC					N	MISC-NATURAL GAS
DES	07/22/91	0340	NR	ALEXANDRI	FC					SWERE SY	MISC-NATURAL GAS
DES	11/22/91	2056	NR	FAUQUIER	P					N	MISC-NATURAL GAS
DES	06/11/92	1525	NR	ALEXANDRI	FC			N			MISC-NATURAL GAS
DES	01/09/91	1220	NR	FAIRFAX	FC					N	MISC-NATURAL GAS AND U
DES	06/21/89	2239	NR	FAIRFAX	H/C			N			MISC-NATURAL LYTE - MED
DES	12/08/92	2002	VR	SHENANDO	H/E			N			MISC-NICKEL SULFATE
DES	10/15/88	1917	VR	SHENANDO	H/C			N		~	MISC-NITROCELLULOSE
EPA	09/25/89	900	NR	FAIRFAX	H/E	60	G	0		STORM DR	MISC-NITROGEN POTASSIU
DES	12/08/88	0814	NR	PRINCE WIL	FC	3	G	N		~	MISC-PERCHLORETHYLEN
CG	01/13/88	1000	NR	PRINCE WIL	U	0	G	0	G		MISC-PERCHLOROETHYLE
DES	02/22/88	0948	NR	PRINCE WIL	FC			~		~	MISC-PERCHLOROETHYLE
EPA	12/31/92	1115	NR	FAIRFAX	H/C	12	G	0	N		MISC-PERCHLOROETHYLE
DES	10/18/90	1400	NR	ARLINGTON	H	40	G	1		UNKNOWN	MISC-PHENOL
DES	05/23/88	1344	NR	LOUDOUN	FC			N		~	MISC-PHOTO FIXER CHEMI
DES	08/31/92	2007	NR	ALEXANDRI	FC	48.5	G	N			MISC-PHOTO PROCESSING
DES	02/05/91	1429	TW	WESTMORE	D					SALT MARS	MISC-PLATING SOLUTION A
EPA	01/12/92	1400	VR	CLARKE	D	55	G	0	U		MISC-POLYPROPYLENE
DES	05/07/91	0051	VR	CLARKE	FC						MISC-POLYURETHAN AND
EPA	06/10/89	100	VR	WARREN	T	294	P	0		NONE	MISC-POLYURETHANE RES
EPA	06/23/91	1400	NR	ALEXANDRI	R/C	0	U	0		UNKNOWN I	MISC-POTASSIUM HYDROX

DES	07/15/92	1548	NR	FAIRFAX	D			Y		RETENTION	MISC-POTASSIUM HYDROX
DES	08/12/88	1752	NR	FAIRFAX	H			~		~	MISC-POTASSIUM PERMAI
DES	11/14/91	1320	VR	SHENANDO	FC					N	MISC-POZZALINE
EPA	10/11/90	900	NR	FAUQUIER	D	32	G	0		UNKNOWN	MISC-QUAKER COAT SOLV
DES	09/10/89	0754	VR	AUGUSTA	H/C			N			MISC-RADIOACTIVE MATEI
DES	02/08/89	0725	VR	AUGUSTA	T			N			MISC-RADIOACTIVE PLAC/
DES	06/21/89	1925	VR	SHENANDO	H/C			N			MISC-RADIOACTIVE WAST
DES	03/19/90	0446	NR	FAIRFAX	FC			0			MISC-RADIUM 226
DES	08/05/89	1122	NR	STAFFORD	H/C			Y		CLAYBORN	MISC-RESIN
DES	11/24/91	0133	VR	CLARKE	R/C					N	MISC-ROCK SALT
EPA	08/17/89	1900	VR	SHENANDO	FC	27	G	0		NONE	MISC-SCENTIEL F 40,DIMET
DES	07/19/89	1522	NR	ALEXANDRI	FC			Y		STORM DR	MISC-SEALANT (STYRENE
DEQ	11/20/89		NR	LOUDOUN	FC					Tuscarora Cr	MISC-SEDIMENT
DEQ	03/06/92		TW	NORTHUMB	D					marsh Task	MISC-SEDIMENT
DEQ	09/21/92		VR	WARREN	D					S. F. Shenan	MISC-SEDIMENT
DES	05/07/92	1730	NR	PRINCE WIL	P			Y		OCCOQUAN	MISC-SLUDGE
DES	05/08/88	1328	VR	HARRISONB	P			Y		STREAM	MISC-SLUDGE FROM TREA
DES	09/14/89	1545	NR	ALEXANDRI	D			N			MISC-SODIUM DICHROMAT
EPA	09/14/89	1300	NR	FAIRFAX	D	0		0		NONE	MISC-SODIUM DICHROMA1
DES	06/05/88	1509	VR	AUGUSTA	H/C			N		~	MISC-SODIUM HYDROXIDE,
DES	06/27/90	1207	NR	ALEXANDRI	FC			0			MISC-SODIUM HYPOCHLOR
DES	05/17/90	1412	NR	PRINCE WIL	H/C	800	G	0			MISC-SODIUM HYPOCHLO
DES	06/12/91	0645	NR	ALEXANDRI	FC					N	MISC-SODIUM HYPOCHLO:
DES	05/29/91	1005	NR	FAUQUIER	FC	1100	G			GOOSE CR	MISC-SODIUM NITRATE
EPA	05/29/91	1200	NR	FAUQUIER	FC	6	BBL	0		NONE	MISC-SODIUM NITRATE
EPA	01/03/90	0	NR	LOUDOUN	FC	300	D	0		NONE	MISC-SODIUM NITRITE
DES	06/12/91	1242	VR	AUGUSTA	H/C					N	MISC-SODIUM SULFICE, SO
DES	07/14/89	1205	VR	FREDERICK	H/C			Y		OCCOQUAN	MISC-SOLID WASTE AND M
EPA	06/22/90	0	NR	PRINCE WIL	U	14	D	0		NONE	MISC-SOLVENTS
EPA	07/16/89	800	NR	ALEXANDRI	D	0	U	0		SEWER SY	MISC-STYRENE,BUTADIEN
CG	03/24/88	925	VR	AUGUSTA	H/E	2	LBS	0	N		MISC-SULFUR DIOXIDE
EPA	05/01/89	1300	VR	AUGUSTA	P	10	LB	0		NONE	MISC-SULFUR DIOXIDE
DES	11/16/90	1615	NR	PRINCE WIL	FC			0			MISC-SULFUR DIOXIDE
DES	03/17/89	1734	NR	ALEXANDRI	D			N			MISC-SULFURYL FLUORIDE
DES	05/01/89	1311	VR	WAYNESBO	P	10	LBS	N			MISC-SULPHUR DIOXIDE
DES	03/24/88	1016	VR	WAYNESBO	H/V	2	LBS	N		~	MISC-SULPHUR DIOXIDE
DES	02/11/90	1730	NR	STAFFORD	FC			0			MISC-TECHNETIUM
DES	08/12/90	1844	NR	STAFFORD	FC			0		]	MISC-TECHNETIUM TC-99M
EPA	08/06/91	1540	NR	FALLS CHU	FC	0	U	0		(GROUNDW	MISC-TETRACHLOROETHA
EPA	06/13/91	0	NR	FAIRFAX	FC	100	G	0		NONE	MISC-TETRACHLOROETHY
DES	06/14/91	1318	NR	FAIRFAX	FC					N	MISC-TETRACHLOROETHY
DES	07/17/92	1332	NR	FAIRFAX	D	12.5	G	N		STORM DR	MISC-TETRACHLOROETHY
DES	09/29/88	0832	VR	ROCKINGHA	H/C			~		~	MISC-TETRAHYDROFURAI
DES	11/07/88	0758	NR	FAIRFAX	D			N		~	MISC-THALIUM 201, KREPT
DES	12/05/88	1136	NR	PRINCE WIL	FC	40	B	N		~	MISC-TOLUENE AND OTHE
DES	07/17/89	1830	NR	FAIRFAX	D	55	G	N			MISC-TRICHLOROETHANE
DES	10/19/88	2333	VR	FREDERICK	H/C			~		N	MISC-TRICHLOROETHANE,
DES	04/08/89	1441	NR	ALEXANDRI	FC	1	QT	N			MISC-TRICHLOROFLUORO
DES	02/23/89	1458	NR	FAUQUIER	U			Y		MARCH RU	MISC-TRINITY #7; ETHYL A
EPA	08/07/89	1658	NR	FAUQUIER	FC	50	G	0		NONE	MISC-TRITON X102 &SURF
EPA	02/08/89	814	VR	AUGUSTA	H/V	0	U	0		NONE	MISC-URANIUM HEXAFLUO
DES	08/14/90	1455	NR	LOUDOUN	FC			0			MISC-URANYL NITRATE
EPA	08/13/91	1100	NR	FAUQUIER	H/E	331	P	0		NONE	MISC-UREA, HOT ASH &DI,
DES	09/19/89	0540	VR	FREDERICK	H			N			MISC-VARNISH
DES	01/14/92	1635	VR	HARRISONB	FC	175	G	F			MISC-VARSON
DES	02/23/91	1159	VR	SHENANDO	D					N	MISC-VOC

DES	02/09/91	1015	VR	SHENANDO	FC					N	MISC-VOLATILE ORGANICS
DES	11/30/92	2005	VR	PAGE	H/C			N			MISC-WASTE FROM CHICK
EPA	06/08/92	855	NR	FAIRFAX	T	1	G	0	N		MISC-WASTE WATER CON
EPA	06/17/91	1530	NR	FAUQUIER	H/C	10	G	0		NONE	MISC-WASTE WATER TREA
EPA	04/18/91	1422	NR	ARLINGTON	H/C	0	U	0		STORM DR	MISC-WATER BASED FLOO
EPA	03/30/89	930	VR	WAYNESBO	U	750	G	0		STORM SE	MISC-WHITE CORROSIVE G
DES	11/01/89	2034	NR	MANASSAS	FC	10	G	Y		CANNON BR	MISC-XYLENE
EPA	07/21/90	915	NR	LOUDOUN	T	0	U	0		NONE	MISC-ZINC OXIDE
DES	10/28/89	1843	VR	CLARKE	M/C			Y		CREEK TO	PAINT
EPA	01/13/91	1500	NR	LOUDOUN	D	0	U	0		STORM DR	PAINT
DES	01/14/91	1542	NR	LOUDOUN	D					STORM DR	PAINT
EPA	06/08/92	1100	NR	FAIRFAX	H/C	0	U	0	U	SEWER	PAINT
DES	06/09/92	0840	NR	ALEXANDRI	FC			N			PAINT
DES	02/18/88	0927	VR	HARRISONB	H/C	25	G	~		~	PAINT
DES	08/29/91	2049	NR	FAIRFAX	FC	5	G			SEWER	PAINT
DES	03/16/90	0040	NR	FAUQUIER	D			0			PAINT - LEAD BASED
DES	01/11/90	1320	NR	ARLINGTON	M			1		LONG BR. -4	PAINT - PP-OIL BASE
DES	06/24/91	0828	VR	SHENANDO	H/C	10	G			N	PAINT ADDITIVE, RESIN SO
DES	02/02/91	1104	NR	ALEXANDRI	FC					N	PAINT AND PAINT THINNER
DES	08/20/90	1322	NR	ALEXANDRI	FC	1	G	0			PAINT AND VARNISH REMO
EPA	04/15/91	900	VR	FREDERICK	D	0	U	0		UNNAMED S	PAINT CANS,DRUMS
DES	02/18/88	0834	VR	HARRISONB	H/C			~		~	PAINT RELATED PRODUCT
DES	07/06/88	1356	NR	ALEXANDRI	D			N		~	PAINT THINNER
DES	06/08/89	1752	NR	FALLS CHU	D			Y		UNNAMED L	PAINT THINNER
DES	02/20/91	0935	VR	ROCKINGHA	H/C					N	PAINT THINNER
DES	09/24/91	0924	NR	FAIRFAX	H					N	PAINT THINNER
DES	08/14/92	0933	NR	FAIRFAX	FC			N			PAINT THINNER
DES	03/23/92	2235	NR	FAIRFAX	D	22.5	G	Y		CREEK	PAINT THINNER
DES	10/30/92	1217	NR	PRINCE WIL	D	770	G	N			PAINT THINNER
DES	11/03/88	1452	NR	FAUQUIER	FC			~		~	PAINT THINNER AND PAINT
DES	02/04/88	2216	NR	PRINCE WIL	D			Y		CREEK INT	PAINT THINNER, PAINT RE
EPA	10/28/89	1730	VR	CLARKE	D	1	G	0		PRIVATE P	PAINT WASTE/ACRYLIC PAI
EPA	01/10/90	800	NR	ARLINGTON	U	0	U	0		LONG BRAN	PAINT, GREEN PP-OIL BAS
EPA	11/03/88	0	NR	FAUQUIER	D	0	U	0		UNKNOWN	PAINT,WASTE PP-OIL
DES	07/08/88	0352	NR	STAFFORD	FC			N		~	PAINT-LACQUER PRODUCT
CG	04/28/88	1500	NR	FAIRFAX	TR/C	0	U	0	U		PCB
DES	04/28/88	1536	NR	FAIRFAX	TR/CAP			~		~	PCB
EPA	03/09/89	1600	NR	ALEXANDRI	TR/C	55	G	0		SEWER	PCB
DES	03/13/89	1721	NR	FAIRFAX	TR/CAP			Y		SEWAGE D	PCB
EPA	07/11/89	0	NR	KING GEOR	TR/C	3	G	0		NONE	PCB
EPA	08/28/89	1630	NR	FAIRFAX	TR/C	5	G	0		NONE	PCB
EPA	10/30/89	800	NR	FAIRFAX	TR/C	1	G	0		NONE	PCB
DES	11/02/89	1009	NR	FAIRFAX	FC	1	PT	N			PCB
EPA	06/08/90	1900	NR	FAIRFAX	TR/C	2	G	0		NONE	PCB
EPA	07/21/90	1525	NR	FAIRFAX	TR/C	20	P	0		NONE	PCB
EPA	08/03/90	800	NR	ARLINGTON	TR/C	5	G	0		NONE	PCB
EPA	12/19/90	2300	NR	FAIRFAX	TR/C	0	U	0		UNKNOWN I	PCB
EPA	01/03/91	0	NR	PRINCE WIL	D	0	U	0		UNKNOWN I	PCB
EPA	01/29/91	830	NR	FAIRFAX	TR/C	2	G	0		NONE	PCB
EPA	03/28/91	922	VR	SHENANDO	TR/C	2	G	0		NONE	PCB
EPA	04/02/91	1000	NR	FAIRFAX	TR/C	1	G	0		NONE	PCB
EPA	07/20/91	1130	NR	FAIRFAX	TR/C	3	G	0		NONE	PCB
EPA	10/05/91	0	NR	FAIRFAX	TR/C	0	U	0		NONE	PCB
EPA	02/14/92	121	NR	FALLS CHU	TR/C	1	G	0	N		PCB
EPA	03/24/92	1355	NR	FAIRFAX	TR/C	1	G	0	N		PCB
EPA	07/11/92	1229	NR	ARLINGTON	TR/C	1	G	0	N		PCB

DES	08/25/88	1250	NR	ALEXANDRI	TR/C	15	G	~		N	PCB
DES	11/07/89	1414	NR	FAUQUIER	TR/C	1.5	G	N			PCB
DES	12/29/90	0750	VR	SHENANDO	TR/C	0.33	G	0			PCB PP-OIL
EPA	11/07/89	1345	NR	FAUQUIER	TR/C	2	G	0		NONE	PCB (60%)
EPA	03/12/92	0	VR	AUGUSTA	D	0	U	0	U	SURFACE	PCB - 168 PPM,LEAD 3020P
DES	01/30/90	1522	NR	ARLINGTON	FC			1		GROUND W	PCB AND SOLVENTS
DES	10/10/90	1509	NR	FAIRFAX	TR/C	1	G	0			PCB CAPACITOR FLUID
DES	02/14/92	0120	NR	FALLS CHU	TR/C	1	G	N			PCB CAPACITOR PP-OIL
DES	04/02/90	1728	VR	WINCHESTE	TR/C	0.5	G	0			PCB CONTAINING FLUID (9
CG	06/21/88	905	NR	FAIRFAX	TR/C	0	U	0	N		PCB CONTAM OIL
DES	09/14/91	0920	VR	ROCKINGHA	U	4	G			N	PCB CONTAMINATED MINE
DES	12/21/90	1019	NR	FAIRFAX	TR/CAP			0			PCB FIRE
EPA	03/30/90	900	VR	FREDERICK	TR/C	1	G	0		NONE	PCB FLUID
DES	03/11/91	1030	VR	AUGUSTA	U	95	G			N	PCB MINERAL PP-OIL
DES	08/29/91	0017	NR	FAIRFAX	U	6	G			N	PCB MINERAL PP-OIL
DES	07/11/92	1852	NR	ARLINGTON	TR/C	2	PINT	N			PCB MINERAL PP-OIL
DES	07/20/91	1710	NR	FAIRFAX	U					N	PCB MINERAL PP-OIL (500
DES	06/21/88	1439	NR	FAIRFAX	FC			N		~	PCB OIL
DES	10/16/89	1401	NR	FAIRFAX	FC	3	G	N			PCB OIL
EPA	03/01/90	1000	NR	ALEXANDRI	FC	0	U	0		NONE	PCB OIL
DES	03/01/90	1120	NR	ALEXANDRI	FC			1		CREEK	PCB OIL
DES	07/12/89	0818	NR	KING GEOR	TR/CAP			N			PCB PP-OIL
DES	03/06/90	1536	VR	FREDERICK	TR/CAP			0			PCB PP-OIL
EPA	03/06/90	0	VR	FREDERICK	TR/C	0	U	0		NONE	PCB PP-OIL
DES	12/18/90	1045	NR	ALEXANDRI	TR/CAP			1		POTOMAC	PCB PP-OIL
DES	01/29/91	0050	NR	FAIRFAX	U					N	PCB PP-OIL
DES	03/28/91	1510	VR	SHENANDO	U	2	G			N	PCB PP-OIL
DES	09/18/91	0024	NR	FAIRFAX	TR/C	4	G	N			PCB PP-OIL
DES	01/31/91	2219	VR	AUGUSTA	U	5	G			N	PCB PP-OIL
DES	01/31/91	1532	NR	FAIRFAX	U	2	G			N	PCB PP-OIL
DES	01/23/89	1306	NR	ALEXANDRI	TR/CAP			N			PCB TRANSFORMER
DES	04/07/91	1140	NR	STAFFORD	U					N	PCB TRANSFORMER PP-OI
DES	11/12/92	1453	NR	FAIRFAX	TR/C	10	G	N			PCB TRANSFORMER PP-OI
DES	07/21/90	2007	NR	ALEXANDRI	TR/C	8	OZ	0			PCB TRANSFORMER PP-OI
DES	07/21/90	2007	NR	FAIRFAX	TR/C	2.5	G	0			PCB TRANSFORMER PP-OI
DES	06/08/90	2211	NR	ALEXANDRI	FC			0			PCB, CAPACITOR FLUID
EPA	01/30/90	0	NR	ARLINGTON	D	0	U	0		UNKNOWN	PCB,SOLVENTS
EPA	06/09/90	1930	NR	FAIRFAX	TR/C	20	G	0		STORM DR	PCB- TRANSFORMER PP-OI
EPA	02/15/91	1600	VR	WARREN	TR/C	100	G	0		NONE	PCB- TRANSFORMER PP-O
EPA	12/03/91	730	NR	FAIRFAX	TR/C	25	G	0	U	SCOTTS RU	PCB- TRANSFORMER PP-O
EPA	07/21/92	300	VR	PAGE	TR/C	200	G	0	N		PCB- TRANSFORMER PP-OI
EPA	10/09/89	1415	NR	FAIRFAX	TR/C	3	G	0		NONE	PCB-CAPACITOR FLUID
CG	11/02/88	1800	NR	STAFFORD	TR/C	400	LBS	0	N		PCB-TRANS OIL
DES	08/05/90	0724	TW	NORTHUMB	TR/CAP			0			PCB-TRANSFORMER POSS
DES	12/26/90	1634	VR	AUGUSTA	TR/C	4	G	0			PCB-TRANSFORMER POSS
EPA	03/07/91	730	VR	AUGUSTA	TR/C	95	G	0		NONE	PCB; MINERAL PP-OIL W/
EPA	03/14/89	130	NR	ARLINGTON	TR/C	0	U	0		NONE	PCB; TRANSFORMER PP-O
DES	05/26/89	2020	NR	ALEXANDRI	FC			N			PCB;CAPACITOR OIL
EPA	05/26/89	1	NR	FAIRFAX	TR/C	200	G	200	G	NONE	PCB;CAPACITOR PP-OIL
EPA	06/26/89	1	NR	ALEXANDRI	TR/C	2	G	0		NONE	PCB;CAPACITOR PP-OIL
EPA	11/03/88	1800	NR	PRINCE WIL	TR/C	400	G	0		NONE	PCB;TRANSFORMER PP-OI
EPA	04/05/89	800	NR	FAIRFAX	H/E	30	G	15	G	STORM SE	PEST-CHEM MIX-UREA BAS
DES	03/01/88	1240	NR	FAIRFAX	FC			N		~	PEST-CHEMICAL (97% CHL
DES	09/10/90	1703	VR	SHENANDO	FC			0			PEST-CHEMTREAT (UN1139
DES	08/01/88	1120	VR	CLARKE	FC			N		~	PEST-CHLORADANE
EPA	07/02/92	1120	NR	PRINCE WIL	D	0	U	0	U	UNNAMED	PEST-CHLORPYRIFOS

DES	05/17/91	1517	NR	ALEXANDRI	H/V	10	G			N	PEST-CHLORPYRIFOS MIX
DES	08/15/92	1350	TW	WESTMORE	H/C			N			PEST-CYCLOHEXANONE-K
DES	11/07/90	1347	TW	NORTHUMB	H/C			0			PEST-DIAMONIUM PHOSPH
EPA	07/02/90	1430	NR	FAIRFAX	T	10	G	0		STORM DR	PEST-DIAZANONE AND HO
DES	04/25/91	1411	VR	SHENANDO	FC	1	G			N	PEST-DICHLOROBENZENE
EPA	04/08/91	1020	NR	FAIRFAX	H/E	40	G	0		SEWER (1 G	PEST-DILUTE LAWN CARE
DES	07/12/88	2205	VR	PAGE	FC			~		~	PEST-DIMILIN
EPA	12/05/89	1514	NR	ARLINGTON	FC	100	G	0		STORM DR	PEST-DURSBAN
DES	08/13/91	1439	NR	FAUQUIER	H	313	LBS			N	PEST-FERTILIZER
DES	05/10/88	1820	VR	FREDERICK	H/C	100	G	Y		OPECKEN C	PEST-FERTILIZER LIQUID
DES	03/12/91	1013	NR	ARLINGTON	H/C	10	G			STORM DR	PEST-FERTILIZER AND WE
DES	02/20/92	1735	NR	LOUDOUN	FC	2	G	Y		STORM DR	PEST-FERTILIZER BASED M
DES	05/17/91	2024	NR	ALEXANDRI	FC	10	G			N	PEST-FERTILIZER, DURSBA
DES	11/21/89	1459	NR	FAIRFAX	H/C	55	G	N			PEST-FERTILIZER;CALCIUM
DES	12/12/91	1300	NR	FAIRFAX	FC					N	PEST-FUNGICIDE
EPA	05/13/91	1430	NR	PRINCE WIL	T	10	G	0		SEWER DR	PEST-FUNGICIDE (99.97%
DES	03/28/89	1505	VR	AUGUSTA	FC			N			PEST-GIUGARD DXN
EPA	04/04/88	1100	VR	PAGE	D	1	G	0		NONE	PEST-HEPTACHLOR
DES	04/07/88	1009	VR	PAGE	FC			N		~	PEST-HEPTACHLOR
DES	10/14/90	1349	NR	FAUQUIER	FC			0			PEST-HERBICIDE
DES	06/14/91	1955	NR	ALEXANDRI	FC					N	PEST-HERBICIDE
DES	06/12/89	1434	NR	FAUQUIER	H/C	1500	G	N			PEST-HERBICIDE
DES	07/02/91	1204	NR	FAUQUIER	T	0.75	G			N	PEST-HERBICIDE (GRAMAX
EPA	06/12/89	930	NR	FAUQUIER	FC	300	G	0		NONE	PEST-HERBICIDE& 30% LIQ
DES	09/25/89	1614	NR	FAIRFAX	T	60	G	Y		STORM DR	PEST-HERBICIDE/FERTILIZ
DES	02/09/90	1734	NR	FAIRFAX	M			1		LONG BRAN	PEST-INSECTICIDE ODOR
EPA	10/16/90	1800	NR	FAIRFAX	D	1000	G	0		SEWER DR	PEST-LIQUID FERTILIZER
DES	07/15/88	1435	VR	AUGUSTA	H/C	900	G	N		~	PEST-LIQUID NITROGEN FE
DES	08/27/91	2122	NR	FAUQUIER	FC	2.5	OZ			N	PEST-MALATHION
EPA	06/12/89	800	NR	FAUQUIER	T	1500	G	0		NONE	PEST-MIXTUR/BICEP 6L HE
EPA	06/02/89	1300	NR	FAIRFAX	H/E	100	G	0		STORM DR	PEST-ORTHANE
DES	04/27/90	1147	NR	ARLINGTON	H/C	10	G	0			PEST-ORTHENE
EPA	08/30/90	1300	NR	FAIRFAX	H/E	30	G	0		STORM DR	PEST-ORTHENE
DES	03/05/92	1115	VR	CLARKE	D			N			PEST-PARAQUAT BASED IN
DES	04/18/91	0938	VR	AUGUSTA	FC	250	G			N	PEST-PARAQUAT, BISEPT,
EPA	07/19/91	1000	NR	FAIRFAX	H/E	10	G	0		STORM DR	PEST-SEVEN'
EPA	08/30/90	1500	NR	FAIRFAX	H/E	30	G	0		STORM DR	PEST-SEVIN SOLUTION (IN
EPA	09/17/91	1220	VR	FREDERICK	T	1.5	G	0		SEWER	PEST-TANK MIX/FERTILIZE
EPA	02/29/88	700	NR	FAIRFAX	T	4	LB	0		NONE	PEST-UNKNOWN&100% CH
EPA	03/26/91	1000	NR	ARLINGTON	H/C	0	U	0		NONE	PEST-UNNAMED FERTILIZE
DES	04/05/89	1552	NR	FAIRFAX	T	30	G	Y		STORM DR	PEST-UREA BASE MIX AND
DES	02/23/90	1519	VR	WAYNESBO	D			0			PEST-UREA FORMALDEHY
EPA	03/30/89	800	NR	FAIRFAX	H/E	10	G	0		STORM SE	PEST-UREA MIXED W/3 HE
DES	03/30/89	1242	NR	FAIRFAX	FC			Y		STORM DR	PEST-UREA PREM SUNBW
DES	03/03/89	1223	NR	FAIRFAX	H/C	1	G	Y		STORM DR	PEST-WATER BASED MIX U
EPA	03/02/89	1100	NR	FAIRFAX	H/E	20	G	0		STORM SE	PEST-WATER BASED MIXE
EPA	03/12/91	1305	NR	ARLINGTON	H/E	10	G	0		STORM DR	PEST-WEED CONTROL & F
DES	04/23/88	1032	VR	HARRISONB	H			N		~	PEST-WEED KILLER
EPA	05/13/88	1200	VR	CLARKE	D	0		0		NONE	PEST.OR HERBICIDE
EPA	08/09/88	0	NR	ARLINGTON	U	0		0		NONE	PESTICIDE
EPA	01/21/89	0	NR	ARLINGTON	D	0	U	0		TRAINAGE	PESTICIDE
DES	10/17/89	1935	NR	PRINCE WIL	FC	5	G	N			PESTICIDE
DES	03/21/91	1102	NR	PRINCE WIL	H/C					N	PESTICIDE
DES	05/08/91	1503	VR	SHENANDO	FC					N	PESTICIDE
DES	08/22/91	0900	VR	SHENANDO	H/C					N	PESTICIDE
DES	10/13/92	2011	NR	FAIRFAX	FC	1	QT	N			PESTICIDE

DES	07/19/91	1128	NR	FAIRFAX	T	7.5	G			STORM DR	PESTICIDE (SEVIN)
EPA	02/05/91	1100	NR	FAUQUIER	FC	0	U	0		NONE	PESTICIDE (SUSPECTED)
DES	08/26/92	1344	NR	FALLS CHU	FC			N			PESTICIDE MIXTURE
DES	08/09/88	1536	NR	ARLINGTON	T			N		~	PESTICIDE, UNKNOWN
DES	08/29/88	0954	NR	FALLS CHU	D			~		N	PESTICIDES
DES	02/05/91	1126	NR	FAUQUIER	FC					N	PESTICIDES
DES	03/06/92	1058	NR	ALEXANDRI	FC			N			PESTICIDES
DES	07/02/92	1308	NR	PRINCE WIL	FC			Y		DRAIN TO C	PESTICIDES
DES	02/18/91	2033	NR	PRINCE WIL	FC					N	PESTICIDES ON FIRE
CG	04/11/90	1500	NR	PRINCE WIL	H/V	2	G	2	G		PP- DIESEL FUEL
CG	08/06/90	455	NR	PRINCE WIL	M	10	G	10	G	POTOMAC	PP- OIL, DIESEL
CG	07/09/88	1830	VR	AUGUSTA	FC	25	G	25	G	SOUTH RIV	PP- OIL, FUEL
CG	08/28/89	1135	NR	FAUQUIER	H/V	100	G	0	U		PP- OIL, FUEL
CG	08/09/88	900	NR	PRINCE WIL	FC	0	U	0	U		PP- OIL, FUEL MIX
EPA	08/06/90	900	NR	FAIRFAX	D	140	G	0		CASP RUN	PP-ASPHALT
CG	03/29/91	2218	NR	PRINCE WIL	M	200	G	100	G	POTOMAC	PP-ASPHALT
DES	03/30/91	2359	NR	PRINCE WIL	M/V					POTOMAC	PP-ASPHALT
DES	01/08/92	0955	NR	STAFFORD	D			T		POTOMAC	PP-ASPHALT MIXED WITH
EPA	02/23/88	1325	NR	STAFFORD	FC	250	O	0		UNKNOWN	PP-BURNING TIRES
DES	05/03/92	1637	NR	ALEXANDRI	FC			Y		POTOMAC	PP-CREOSOTE
DES	06/08/92	1947	NR	ALEXANDRI	FC			Y		POTOMAC	PP-CREOSOTE
CG	05/16/89	1837	NR	PRINCE WIL	H/V	50	G	0	U	POTOMAC	PP-DIESEL
CG	09/22/89	1130	TW	WESTMORE	M	1	G	1	G		PP-DIESEL FUEL
DES	06/14/92	1949	NR	PRINCE WIL	D	15	G	N			PP-DRIVEWAY SEALANT
DES	11/18/90	0220	TW	WESTMORE	M/V			1		PINEY PT.C	PP-ETHYL BASED CUTTER
DES	02/20/92	1900	NR	ALEXANDRI	FC	25	LBS	CYLINDER			PP-FREON
DES	03/30/90	1920	VR	WAYNESBO	D			0			PP-FREON - PETROLEUM D
DES	08/07/92	2058	VR	CLARKE	FC			N			PP-FREON 11
DES	09/15/92	0840	VR	CLARKE	D			N			PP-FREON-11
DES	09/10/92	1406	NR	LOUDOUN	FC			N			PP-FUEL
DES	12/01/92	2002	NR	ALEXANDRI	M/V			Y		TRIBUTARY	PP-FUEL
DES	01/29/88	2115	VR	WARREN	FC	600	G	Y		SHENANDO	PP-FUEL OIL
DES	02/13/88	2012	NR	ARLINGTON	FC			~		~	PP-FUEL OIL
DES	10/27/88	1750	VR	ROCKINGHA	FC			Y		MUDDY CR	PP-FUEL OIL
DES	06/13/89	1619	NR	FAIRFAX	FC	2000	G	N			PP-FUEL OIL
EPA	06/13/89	1430	NR	FAIRFAX	FC	2000	G	0		NONE	PP-FUEL OIL
DES	07/11/89	1115	NR	FAIRFAX	FC			N			PP-FUEL OIL
DES	04/03/90	1854	NR	PRINCE WIL	FC	100	G	1		POTOMAC	PP-FUEL OIL
DES	11/11/90	1448	NR	FAIRFAX	FC	150	G	1		STREAM	PP-FUEL OIL
EPA	07/05/91	829	NR	ALEXANDRI	FC	900	G	0		HOOF RUN	PP-FUEL OIL
DES	11/03/92	0844	VR	WARREN	FC	50	G	N			PP-FUEL OIL
EPA	02/13/88	1953	NR	ARLINGTON	U	0		0		SEWER SY	PP-FUEL PP-OIL
DES	03/27/88	1226	NR	LOUDOUN	H	3000	G	Y		BROAD RUN	PP-FUEL PP-OIL
DES	06/18/88	1250	NR	FAIRFAX	P			N		~	PP-FUEL PP-OIL
DES	09/01/88	~	NR	FAIRFAX	M			Y		CREEK	PP-FUEL PP-OIL
DES	11/23/88	1706	VR	HARRISONB	H			Y		BLACKS RU	PP-FUEL PP-OIL
EPA	12/20/89	1539	NR	ARLINGTON	U	0	U	0		ROACHES R	PP-FUEL PP-OIL
DES	05/26/90	1028	NR	PRINCE WIL	T			1		CEDAR CRE	PP-FUEL PP-OIL
EPA	06/10/91	0	NR	FAIRFAX	U	0	U	0		ACCOTINK	PP-FUEL PP-OIL
DES	10/21/92	1658	NR	PRINCE WIL	H/C			N			PP-FUEL PP-OIL
DES	02/01/91	1210	TW	NORTHUMB	H/C	1500	G				PP-FUEL PP-OIL & KEROSE
DES	06/21/91	0008	TW	WESTMORE	M					POTOMAC	PP-FUEL PP-OIL/PP-FUEL,
EPA	12/10/89	0	NR	PRINCE WIL	D	0	U	0		NONE	PP-FUEL, AVIATION
DES	11/23/90	0954	NR	FAIRFAX	FC			1		CREEK	PP-FUEL, AVIATION
EPA	12/10/91	245	NR	FAIRFAX	FC	34000	G	0	N		PP-FUEL, AVIATION
EPA	03/19/88	1500	VR	FREDERICK	H/E	0		0		NONE	PP-FUEL, DIESEL

DES	03/29/88	1807	NR	LOUDOUN	H			Y		CAPOCAN C	PP-FUEL, DIESEL
DES	04/07/88	0943	NR	PRINCE WIL	H/C	50	G	Y		DRAINAGE	PP-FUEL, DIESEL
DES	04/10/88	2107	NR	FAIRFAX	H/C	70	G	N		~	PP-FUEL, DIESEL
DES	04/19/88	1833	VR	ROCKINGHA	FC	160	G	N		~	PP-FUEL, DIESEL
DES	05/05/88	1052	NR	LOUDOUN	H/V	50	G	N		~	PP-FUEL, DIESEL
DES	05/09/88	1253	NR	ALEXANDRI	H/V	300	G	Y		STORM SE	PP-FUEL, DIESEL
EPA	05/17/88	1100	NR	ARLINGTON	T	50	G	0		NONE	PP-FUEL, DIESEL
DES	05/18/88	1804	NR	FAUQUIER	T	82.5	G	Y		~	PP-FUEL, DIESEL
DES	05/20/88	2110	NR	FAIRFAX	FC			Y		DRAIN SYS	PP-FUEL, DIESEL
DES	06/03/88	2039	NR	STAFFORD	P	250	G	Y		STREAM TO	PP-FUEL, DIESEL
DES	06/20/88	2048	NR	LOUDOUN	H/C			N		~	PP-FUEL, DIESEL
EPA	06/21/88	1400	NR	FAIRFAX	H/V	15	G	0		NONE	PP-FUEL, DIESEL
DES	06/23/88	1317	TW	WESTMORE	H/C	200	G	N		~	PP-FUEL, DIESEL
DES	07/14/88	1941	VR	AUGUSTA	H/C	100	G	N		~	PP-FUEL, DIESEL
DES	08/01/88	1047	VR	ROCKINGHA	T	50	G	~		~	PP-FUEL, DIESEL
DES	08/05/88	1255	VR	FREDERICK	H/V			Y		CREEK	PP-FUEL, DIESEL
DES	08/08/88	2223	TW	WESTMORE	H/V	150	G	N		~	PP-FUEL, DIESEL
DES	08/25/88	2222	NR	PRINCE WIL	FC	25	G	Y		SEWER SY	PP-FUEL, DIESEL
DES	09/12/88	0312	NR	FAIRFAX	H	300	G	Y		SCOTTS RU	PP-FUEL, DIESEL
EPA	10/02/88	1757	NR	ALEXANDRI	H/C	150	G	Y		ENTERED S	PP-FUEL, DIESEL
DES	11/04/88	0552	NR	PRINCE WIL	H/V	60	G	N		~	PP-FUEL, DIESEL
DES	11/16/88	0417	NR	FAIRFAX	H/V			Y		CREEK	PP-FUEL, DIESEL
DES	11/28/88	1146	NR	PRINCE WIL	H/V	35	G	N		~	PP-FUEL, DIESEL
DES	11/28/88	1906	VR	SHENANDO	H/V	140	G	N		~	PP-FUEL, DIESEL
DES	12/01/88	0455	VR	ROCKINGHA	H/C	75	G	~		~	PP-FUEL, DIESEL
DES	12/18/88	1506	NR	PRINCE WIL	FC	50	G	~		~	PP-FUEL, DIESEL
DES	01/01/89	1248	NR	PRINCE WIL	FC	10	G	Y		SEWER	PP-FUEL, DIESEL
DES	01/05/89	1453	NR	STAFFORD	H/C			N			PP-FUEL, DIESEL
DES	01/06/89	1023	VR	SHENANDO	H/V	100	G	N			PP-FUEL, DIESEL
DES	01/25/89	1101	VR	SHENANDO	H/C	100	G	Y		SHENANDO	PP-FUEL, DIESEL
EPA	03/31/89	830	NR	FAIRFAX	FC	60	G	0		CREEK (NA	PP-FUEL, DIESEL
DES	04/01/89	0711	NR	ALEXANDRI	H/C	150	G	Y		POTOMAC	PP-FUEL, DIESEL
EPA	04/01/89	647	NR	ALEXANDRI	H/C	100	G	0		HOOS RUN	PP-FUEL, DIESEL
DES	05/02/89	1452	VR	WARREN	R/V			N			PP-FUEL, DIESEL
DES	05/03/89	0843	NR	PRINCE WIL	H/V	40	G	N			PP-FUEL, DIESEL
DES	05/09/89	1528	NR	FAIRFAX	FC	12	G	N			PP-FUEL, DIESEL
EPA	05/09/89	1200	NR	FAIRFAX	T	12	G	0		NONE	PP-FUEL, DIESEL
EPA	05/23/89	832	NR	ALEXANDRI	H/V	200	G	0		NONE	PP-FUEL, DIESEL
DES	05/23/89	0907	NR	ALEXANDRI	H/V	162.5	G	Y		LITTLE HUN	PP-FUEL, DIESEL
DES	05/26/89	1145	NR	ALEXANDRI	FC	50	G	Y		COOKS RU	PP-FUEL, DIESEL
EPA	05/26/89	545	NR	FAIRFAX	P	400	G	0		NONE	PP-FUEL, DIESEL
DES	05/30/89	0948	NR	FAIRFAX	P	400	G				PP-FUEL, DIESEL
DES	06/13/89	1548	NR	ALEXANDRI	FC			Y		HOOFS RU	PP-FUEL, DIESEL
EPA	06/15/89	700	NR	FAIRFAX	H/E	20	G	0		NONE	PP-FUEL, DIESEL
DES	06/16/89	1005	NR	FAIRFAX	T	20	G	N			PP-FUEL, DIESEL
DES	07/30/89	1000	NR	FAIRFAX	H/V	200	G	N			PP-FUEL, DIESEL
DES	08/09/89	1431	NR	ALEXANDRI	H/C	82.5	G	Y		STORM DR	PP-FUEL, DIESEL
EPA	08/22/89	2108	NR	FAUQUIER	H/V	75	G	0		NONE	PP-FUEL, DIESEL
DES	08/28/89	1448	NR	FAUQUIER	H/V	100	G	N			PP-FUEL, DIESEL
EPA	09/25/89	1200	VR	ROCKINGHA	T	50	G	0		NONE	PP-FUEL, DIESEL
DES	09/25/89	1508	VR	HARRISONB	T			N			PP-FUEL, DIESEL
DES	09/28/89	2245	NR	FAUQUIER	R/C	2600	G	Y		OWL RUN	PP-FUEL, DIESEL
DES	09/30/89	1853	NR	ARLINGTON	H/V	100	G	Y		SEWER SY	PP-FUEL, DIESEL
DES	09/30/89	1952	NR	LOUDOUN	H/V	100	G	N			PP-FUEL, DIESEL
DES	10/11/89	0348	NR	STAFFORD	T	300	G	N			PP-FUEL, DIESEL
DES	11/16/89	0923	NR	STAFFORD	H/V	150	G	Y		POTOMAC	PP-FUEL, DIESEL

DES	12/05/89	2110	NR	ARLINGTON	H/V	100	G	N			PP-FUEL, DIESEL
DES	12/18/89	0408	NR	ARLINGTON	H/C	650	G	Y		STORM DR	PP-FUEL, DIESEL
DES	01/04/90	0905	NR	LOUDOUN	H/V	70	G	1		TRIB. TO G	PP-FUEL, DIESEL
DES	01/25/90	1706	NR	FAIRFAX	FC			0			PP-FUEL, DIESEL
DES	02/09/90	1021	NR	ARLINGTON	H/V	150	G	0			PP-FUEL, DIESEL
DES	02/22/90	2000	NR	PRINCE WIL	FC			0			PP-FUEL, DIESEL
DES	02/27/90	1414	NR	FAIRFAX	P			0			PP-FUEL, DIESEL
DES	03/07/90	1206	VR	FREDERICK	H/V	100	G	0			PP-FUEL, DIESEL
EPA	03/13/90	1100	NR	ARLINGTON	H/V	0	U	0		STORM SE	PP-FUEL, DIESEL
DES	03/13/90	1213	NR	ARLINGTON	P	50	G	0			PP-FUEL, DIESEL
DES	04/25/90	0241	VR	AUGUSTA	H/V	55	G	0			PP-FUEL, DIESEL
DES	06/26/90	1544	NR	FAIRFAX	FC	500	G	1		POTOMAC	PP-FUEL, DIESEL
DES	07/17/90	0157	NR	FAIRFAX	H/V	200	G	1		SCOTTS RU	PP-FUEL, DIESEL
DES	07/28/90	1236	VR	ROCKINGHA	H/V	60	G	1		STORM DR	PP-FUEL, DIESEL
DES	08/06/90	1529	NR	FAIRFAX	H/V	60	G	0			PP-FUEL, DIESEL
DES	08/12/90	1518	NR	FAUQUIER	T			1		SOUTH RUN	PP-FUEL, DIESEL
DES	09/06/90	1237	NR	PRINCE WIL	H/V	200	G	0			PP-FUEL, DIESEL
DES	09/27/90	1902	NR	PRINCE WIL	H	125	G	0			PP-FUEL, DIESEL
DES	10/23/90	0747	NR	STAFFORD	H/V	200	G	1		POTOMAC	PP-FUEL, DIESEL
DES	10/27/90	1414	TW	WESTMORE	FC	87.5	G	1		DRAINAGE	PP-FUEL, DIESEL
DES	11/19/90	0319	NR	LOUDOUN	H/V	150	G	0			PP-FUEL, DIESEL
DES	12/03/90	0313	NR	FAIRFAX	H/V	212	G	1		STORM DR	PP-FUEL, DIESEL
DES	01/14/91	1621	VR	HARRISONB	FC	100	G			BLACKS RU	PP-FUEL, DIESEL
DES	01/18/91	2107	NR	STAFFORD	H/V	65	G			AQUIA CRE	PP-FUEL, DIESEL
DES	01/24/91	1410	NR	FAIRFAX	H/V	200	G			N	PP-FUEL, DIESEL
DES	01/24/91	2212	NR	FAUQUIER	FC	100	G			CEDAR RUN	PP-FUEL, DIESEL
EPA	02/05/91	1915	NR	FALLS CHU	U	0	U	0		FOUR MILE	PP-FUEL, DIESEL
DES	03/04/91	1008	NR	FAIRFAX	H/V	35	G			N	PP-FUEL, DIESEL
DES	03/04/91	1520	NR	LOUDOUN	H/V	100	G			N	PP-FUEL, DIESEL
DES	03/06/91	1515	TW	WESTMORE	FC					N	PP-FUEL, DIESEL
DES	04/03/91	1319	NR	FAIRFAX	H/V	87.5	G			BACK LICK	PP-FUEL, DIESEL
DES	04/05/91	1019	NR	FAUQUIER	H/C	100	G			N	PP-FUEL, DIESEL
DES	04/27/91	0333	NR	MANASSAS	R					N	PP-FUEL, DIESEL
DES	05/01/91	1409	VR	WARREN	FC	87.5	G			N	PP-FUEL, DIESEL
DES	05/15/91	0525	NR	PRINCE WIL	H/V	100	G			N	PP-FUEL, DIESEL
DES	05/16/91	0928	NR	PRINCE WIL	H/V	175	G			POTOMAC	PP-FUEL, DIESEL
DES	07/29/91	1010	NR	ALEXANDRI	H/C	75	G			N	PP-FUEL, DIESEL
DES	08/13/91	0942	NR	FALLS CHU	FC	100	G			N	PP-FUEL, DIESEL
DES	09/07/91	1603	VR	FREDERICK	H/C	100	G			N	PP-FUEL, DIESEL
DES	10/10/91	2115	NR	PRINCE WIL	H/V	160	G			N	PP-FUEL, DIESEL
DES	11/15/91	1217	NR	PRINCE WIL	H/V	100	G			N	PP-FUEL, DIESEL
DES	12/04/91	1210	NR	ARLINGTON	FC	150	G			LUBBER RU	PP-FUEL, DIESEL
DES	12/23/91	2020	NR	FAIRFAX	H/V	150	G			N	PP-FUEL, DIESEL
DES	02/20/92	1852	NR	FAUQUIER	FC			Y		BOWENS R	PP-FUEL, DIESEL
DES	03/02/92	1500	NR	FAIRFAX	H/V	50	G	N			PP-FUEL, DIESEL
DES	03/22/92	1800	NR	PRINCE WIL	H/V	100	G	N			PP-FUEL, DIESEL
DES	04/02/92	1233	NR	STAFFORD	H/V	50	G	N			PP-FUEL, DIESEL
DES	04/04/92	0746	NR	FAIRFAX	H/E	100	G	N			PP-FUEL, DIESEL
DES	05/05/92	0440	NR	PRINCE WIL	H/V	50	G	N			PP-FUEL, DIESEL
DES	05/07/92	1949	VR	SHENANDO	H/C	150	G	N			PP-FUEL, DIESEL
DES	06/03/92	1024	NR	PRINCE WIL	H/V	125	G	N			PP-FUEL, DIESEL
DES	06/12/92	1454	NR	FAIRFAX	H/V	110	G	Y		CAMERON	PP-FUEL, DIESEL
DES	06/25/92	1812	VR	FREDERICK	H/V	125	G	Y		SEWER SY	PP-FUEL, DIESEL
DES	07/15/92	1854	VR	FREDERICK	FC			Y		SHENANDO	PP-FUEL, DIESEL
DES	07/28/92	1854	NR	STAFFORD	FC	150	G	Y		STORM SE	PP-FUEL, DIESEL
DES	08/05/92	1620	NR	FAIRFAX	FC			N			PP-FUEL, DIESEL

DES	09/01/92	1711	NR	FAUQUIER	P			N			PP-FUEL, DIESEL
DES	09/23/92	0822	NR	MANASSAS	R/C	250	G	N			PP-FUEL, DIESEL
DES	09/24/92	1627	VR	ROCKINGHA	FC	67.5	G	N			PP-FUEL, DIESEL
DES	10/01/92	2218	NR	FAIRFAX	H/V	80	G	Y		STORM DR	PP-FUEL, DIESEL
DES	11/02/92	2212	NR	LOUDOUN	FC	200	G	N			PP-FUEL, DIESEL
DES	11/11/92	0805	NR	LOUDOUN	H/C	600	G	N			PP-FUEL, DIESEL
DES	12/04/92	1155	TW	WESTMORE	H/V	40	G	Y		ARTESIAN	PP-FUEL, DIESEL
DES	12/08/92	1515	NR	STAFFORD	T			N			PP-FUEL, DIESEL
DES	12/22/92	1549	NR	PRINCE WIL	H/V	100	G	N			PP-FUEL, DIESEL
DES	12/27/92	1644	VR	WARREN	FC	200	G	N			PP-FUEL, DIESEL
DES	09/28/92	1205	NR	ALEXANDRI	FC	150	G	Y		POTOMAC	PP-FUEL, DIESEL#2
DES	06/21/89	1830	NR	ALEXANDRI	T	23000	G	Y		STORM DR	PP-FUEL, DIESEL#2
DES	12/17/89	0049	NR	STAFFORD	H/C	1700	G	N			PP-FUEL, DIESEL& KEROSE
DES	09/02/92	1515	NR	ALEXANDRI	H/V	50	G	N			PP-FUEL, DIESEL& PP-OIL
EPA	01/15/90	1200	NR	STAFFORD	FC	0	U	0		UNNAMED	PP-FUEL, DIESEL,PP-OIL, M
DES	08/08/88	1459	NR	PRINCE WIL	H/V			Y		QUANTICO	PP-FUEL, DIESEL/HYDRAUL
DES	09/20/90	1528	NR	FAIRFAX	M			1		CROOKED	PP-FUEL, DIESEL/KEROSEN
DES	11/29/91	1336	NR	STAFFORD	FC	250	G			N	PP-FUEL, DIESELAND KER
DES	06/04/90	1625	NR	FAIRFAX	FC			0			PP-FUEL, DIESELAND PP-G
DES	05/28/89	1038	VR	AUGUSTA	H/V			N			PP-FUEL, DIESELEXPLOSIV
EPA	08/12/89	1200	NR	FAIRFAX	FC	50	G	0		NONE	PP-FUEL, DIESELJP-4
DES	08/07/90	1506	TW	NORTHUMB	M			1		DIVIDING C	PP-FUEL, DIESELODOR AN
EPA	05/16/89	1830	NR	PRINCE WIL	H/V	100	G	0		CREEK AT	PP-FUEL, DIESELOLD
EPA	04/28/90	1200	NR	ARLINGTON	FC	20	G	0		NONE	PP-FUEL, DIESELPP-OIL
DES	01/01/89	1652	NR	PRINCE WIL	H/V	62.5	G	N			PP-FUEL, DIESELPP-OIL
DES	08/10/88	1745	TW	NORTHUMB	H/C	150	G	N		~	PP-FUEL, DIESELPP-OIL AN
DES	12/11/91	1145	TW	NORTHUMB	M					WICOMICO	PP-FUEL, DIESELSHEEN
EPA	06/22/89	1100	NR	PRINCE WIL	T	55	G	0		STORM DR	PP-FUEL, JET 5
EPA	01/24/91	1430	NR	FAIRFAX	FC	400	G	0		STORM CR	PP-FUEL, JET : JP-5 (KERO
EPA	09/16/88	1330	NR	LOUDOUN	T	500	G	0		NONE	PP-FUEL, JET A PP-OIL
EPA	05/30/90	1430	NR	FAIRFAX	FC	500	G	300	G	UNNAMED S	PP-FUEL, JET JP-5 (KEROS
DES	05/30/90	1702	NR	FAIRFAX	FC	500	G	1		STREAM TO	PP-FUEL, JET JP5
EPA	05/10/91	1500	NR	FAIRFAX	H/E	500	G	0		NONE	PP-FUEL, JET: JP-4
EPA	06/13/89	1530	NR	ALEXANDRI	T	35	G	0		CAMERON	PP-FUEL, JET; JP4
DES	10/06/88	0358	NR	PRINCE WIL	M/V	500	G	Y		OCCOQUAN	PP-GAS AND FIBERGLASS
DES	01/15/88	1415	NR	FAIRFAX	FC	15	G	N		~	PP-GASOLINE
EPA	01/22/88	1930	VR	ROCKINGHA	T	10	G	0		NONE	PP-GASOLINE
EPA	01/30/88	1830	NR	FAIRFAX	T	300	G	0		UNKNOWN	PP-GASOLINE
CG	01/31/88	330	NR	ALEXANDRI	FC	3	G	0	N		PP-GASOLINE
DES	02/04/88	1018	NR	FAIRFAX	FC	50	G	N		~	PP-GASOLINE
DES	02/10/88	1318	VR	WAYNESBO	FC			~		~	PP-GASOLINE
EPA	03/22/88	1045	NR	ALEXANDRI	U	50	G	0		STORM SE	PP-GASOLINE
DES	03/31/88	0843	NR	STAFFORD	FC	40	G	N		~	PP-GASOLINE
DES	04/05/88	1548	NR	FAIRFAX	U			~		~	PP-GASOLINE
DES	04/25/88	1010	NR	ARLINGTON	H	7.5	G	N		~	PP-GASOLINE
DES	05/05/88	1143	NR	FAIRFAX	T	5	G	Y		STORM DR	PP-GASOLINE
EPA	05/05/88	1030	NR	FAIRFAX	T	5	G	0		POSS. SEW	PP-GASOLINE
DES	05/09/88	0057	NR	LOUDOUN	H/C			Y		LITTLE RIVE	PP-GASOLINE
EPA	05/09/88	648	NR	LOUDOUN	H/C	2000	G	0		LITTLE RIVE	PP-GASOLINE
EPA	06/01/88	1700	VR	WINCHESTE	FC	0		0		NONE	PP-GASOLINE
DES	06/02/88	1105	VR	FREDERICK	FC			N		~	PP-GASOLINE
DES	06/14/88	1953	NR	LOUDOUN	H	35	G	Y		~	PP-GASOLINE
CG	06/15/88	1715	NR	FAIRFAX	H/E	5	G	0	N		PP-GASOLINE
DES	07/11/88	1757	NR	FAIRFAX	H/C	10	G	N		~	PP-GASOLINE
DES	07/13/88	1732	NR	PRINCE WIL	FC	140	G	N		~	PP-GASOLINE
DES	07/18/88	1420	NR	ALEXANDRI	H/C			~		~	PP-GASOLINE

DES	08/21/88	1122	NR	FAIRFAX	FC	0.5	G	N		~	PP-GASOLINE
DES	09/10/88	0748	NR	FAIRFAX	FC	750	G	Y		CONTAINM	PP-GASOLINE
DES	10/01/88	0849	TW	NORTHUMB	FC	25	G	~		~	PP-GASOLINE
DES	10/01/88	0839	VR	HARRISONB	H	13	G	~		~	PP-GASOLINE
DES	10/13/88	1225	NR	ARLINGTON	FC			N		~	PP-GASOLINE
EPA	10/23/88	0	NR	FAUQUIER	U	0	U	0		DRINKING	PP-GASOLINE
DES	10/26/88	1533	NR	FAUQUIER	FC			Y		~	PP-GASOLINE
EPA	11/02/88	1300	NR	ALEXANDRI	FC	0	U	0		UNKNOWN	PP-GASOLINE
EPA	11/06/88	1045	NR	FALLS CHU	H/E	1	G	0		NONE	PP-GASOLINE
DES	11/13/88	0611	NR	ALEXANDRI	H	770	G	Y		SEWER SY	PP-GASOLINE
EPA	11/30/88	1000	NR	FAIRFAX	FC	5	G	0		NONE	PP-GASOLINE
DES	11/30/88	1133	NR	FAIRFAX	P	4.5	G	N		~	PP-GASOLINE
EPA	12/24/88	1110	NR	FAIRFAX	T	10	G	0		NONE	PP-GASOLINE
DES	12/27/88	1710	VR	ROCKINGHA	T	50	G	Y		SPRING	PP-GASOLINE
EPA	01/13/89	924	NR	FAUQUIER	H/V	40	G	0		UNNAMED	PP-GASOLINE
EPA	01/15/89	1300	NR	ALEXANDRI	T	1	G	0		NONE	PP-GASOLINE
EPA	02/09/89	935	VR	CLARKE	T	25	G	0		NONE	PP-GASOLINE
EPA	02/13/89	2100	NR	ALEXANDRI	FC	100	G	0		CITY STOR	PP-GASOLINE
EPA	02/14/89	945	NR	ALEXANDRI	T	5	G	0		NONE	PP-GASOLINE
EPA	02/23/89	1130	VR	ROCKINGHA	FC	1300	G	0		UNKNOWN	PP-GASOLINE
EPA	02/28/89	1524	NR	FAUQUIER	T	5	G	0		STORM SE	PP-GASOLINE
EPA	03/24/89	1155	NR	FAUQUIER	FC	0	U	0		NONE	PP-GASOLINE
DES	03/24/89	1213	NR	FAUQUIER	FC			N			PP-GASOLINE
DES	03/30/89	0711	NR	FAIRFAX	H/C			N			PP-GASOLINE
EPA	03/30/89	630	NR	FAIRFAX	H/C	0	O	0		NONE	PP-GASOLINE
DES	04/07/89	1643	NR	FAUQUIER	FC			Y		GROUND	PP-GASOLINE
EPA	04/16/89	2110	NR	PRINCE WIL	U	0	U	0		UNNAMED	PP-GASOLINE
EPA	04/26/89	1600	NR	FAUQUIER	FC	0	U	0		SEWER	PP-GASOLINE
EPA	05/05/89	800	NR	FAIRFAX	FC	200	G	0		INTERMITT	PP-GASOLINE
EPA	05/26/89	800	VR	PAGE	T	10	G	5	G	STORM DR	PP-GASOLINE
EPA	06/15/89	1705	NR	PRINCE WIL	H/V	100	G	0		LAKE MONT	PP-GASOLINE
EPA	06/27/89	1000	NR	LOUDOUN	D	0	U	0		WELL WAT	PP-GASOLINE
DES	07/19/89	0821	TW	WESTMORE	FC			Y		STORM DR	PP-GASOLINE
DES	07/29/89	1550	NR	ARLINGTON	D	5	G	Y		FOUR MILE	PP-GASOLINE
EPA	08/03/89	1200	VR	FREDERICK	T	10	G	0		NONE	PP-GASOLINE
EPA	08/15/89	1400	VR	ROCKINGHA	T	1100	G	0		SEWER SY	PP-GASOLINE
DES	09/27/89	1825	VR	STAUNTON	FC			Y		LEWIS CRE	PP-GASOLINE
DES	10/05/89	0030	NR	STAFFORD	FC	32.5	G	N			PP-GASOLINE
DES	10/20/89	2116	NR	STAFFORD	FC	2	G	N			PP-GASOLINE
DES	11/26/89	0354	NR	PRINCE WIL	FC	119	G	N			PP-GASOLINE
DES	11/30/89	1234	NR	STAFFORD	T	100	G	N			PP-GASOLINE
EPA	12/19/89	1000	NR	PRINCE WIL	FC	4500	G	Y		CREEK BED	PP-GASOLINE
EPA	12/24/89	724	NR	LOUDOUN	H/C	0	U	0		UNKNOWN	PP-GASOLINE
DES	12/26/89	2104	NR	STAFFORD	FC	15	G	N			PP-GASOLINE
EPA	12/26/89	0	NR	ALEXANDRI	M/V	300	G	0		POTOMAC	PP-GASOLINE
EPA	01/22/90	2145	NR	FAIRFAX	H/E	129	G	0		NONE	PP-GASOLINE
EPA	01/26/90	930	NR	FAIRFAX	T	10	G	0		NONE	PP-GASOLINE
DES	01/30/90	1133	VR	WINCHESTE	FC			0			PP-GASOLINE
DES	01/30/90	1912	NR	MANASSAS	FC			1		WINTERS B	PP-GASOLINE
DES	02/24/90	1450	VR	ROCKINGHA	FC			1		WELL AT R	PP-GASOLINE
DES	03/28/90	2033	NR	STAFFORD	FC			0			PP-GASOLINE
DES	05/14/90	0855	NR	LOUDOUN	T	1400	G	0			PP-GASOLINE
DES	07/19/90	1020	NR	PRINCE WIL	FC			0			PP-GASOLINE
EPA	07/25/90	1500	NR	ARLINGTON	M/V	0	U	0		POTOMAC	PP-GASOLINE
DES	07/26/90	0904	NR	ARLINGTON	M/V			1		POTOMAC	PP-GASOLINE
EPA	08/02/90	1200	VR	WINCHESTE	T	0	U	0		NONE	PP-GASOLINE

DES	08/08/90	0943	NR	LOUDOUN	FC	500	G	0			PP-GASOLINE
DES	08/13/90	1055	VR	FREDERICK	FC			1		GROUND W	PP-GASOLINE
EPA	09/04/90	1200	NR	STAFFORD	FC	0	U	0		UNKNOWN	PP-GASOLINE
DES	09/15/90	1042	NR	FALLS CHU	FC			0			PP-GASOLINE
EPA	09/25/90	900	NR	FAUQUIER	U	0	U	0		STORM SE	PP-GASOLINE
DES	10/08/90	1415	NR	FAIRFAX	FC			0			PP-GASOLINE
DES	10/08/90	1159	VR	CLARKE	FC			1		GROUND W	PP-GASOLINE
EPA	10/08/90	0	VR	CLARKE	FC	0	U	0		NONE	PP-GASOLINE
EPA	10/15/90	645	NR	ALEXANDRI	H/E	10	G	0		NONE	PP-GASOLINE
DES	10/15/90	0724	NR	ALEXANDRI	T	17.5	G	0			PP-GASOLINE
EPA	10/26/90	0	NR	LOUDOUN	T	0	U	0		NONE	PP-GASOLINE
DES	10/27/90	1416	NR	STAFFORD	D			0			PP-GASOLINE
EPA	12/12/90	0	NR	LOUDOUN	FC	0	U	0		NONE	PP-GASOLINE
DES	12/13/90	2052	NR	LOUDOUN	T	20	G	1		SEWER SY	PP-GASOLINE
EPA	02/02/91	1140	NR	FAIRFAX	T	200	G	0		NONE	PP-GASOLINE
EPA	02/14/91	1000	NR	LOUDOUN	H/E	35	G	0		NONE	PP-GASOLINE
EPA	02/21/91	900	NR	ARLINGTON	T	25	G	0		NONE	PP-GASOLINE
EPA	02/27/91	930	NR	LOUDOUN	FC	0	U	0		NONE	PP-GASOLINE
DES	02/28/91	0914	NR	LOUDOUN	FC					N	PP-GASOLINE
EPA	03/28/91	1000	NR	FALLS CHU	T	1	G	0		NONE	PP-GASOLINE
DES	04/17/91	1700	NR	FAIRFAX	FC					N	PP-GASOLINE
DES	05/14/91	1043	NR	ALEXANDRI	FC					HOOF'S RU	PP-GASOLINE
EPA	06/04/91	1215	NR	FAIRFAX	FC	15	G	0		NONE	PP-GASOLINE
DES	06/04/91	1444	NR	FAIRFAX	P					N	PP-GASOLINE
DES	07/11/91	1954	NR	FAIRFAX	P					N	PP-GASOLINE
DES	07/19/91	1425	TW	NORTHUMB	FC	47	G			N	PP-GASOLINE
DES	08/12/91	1035	VR	HARRISONB	T	200	G			N	PP-GASOLINE
CG	08/19/91	1115	NR	FAIRFAX	T	5	G	0	N		PP-GASOLINE
DES	08/28/91	1855	NR	ALEXANDRI	FC					SEWEER	PP-GASOLINE
DES	09/14/91	2128	TW	WESTMORE	M/V	6	G			MONROE C	PP-GASOLINE
EPA	09/19/91	1115	NR	FAIRFAX	T	5	G	0		NONE	PP-GASOLINE
DES	09/21/91	0042	NR	ALEXANDRI	H					SEWER	PP-GASOLINE
DES	10/10/91	1152	NR	ALEXANDRI	FC					CAMERON	PP-GASOLINE
EPA	10/22/91	1030	NR	FAIRFAX	FC	4.9	G	0		NONE	PP-GASOLINE
DES	10/27/91	0718	VR	ROCKINGHA	H/C					NORTH RIV	PP-GASOLINE
DES	11/14/91	1706	VR	WINCHESTE	FC					N	PP-GASOLINE
DES	11/14/91	1733	VR	ROCKINGHA	FC					N	PP-GASOLINE
DES	11/14/91	0129	NR	FAUQUIER	FC					N	PP-GASOLINE
DES	11/25/91	0013	NR	FAUQUIER	P	22	G			N	PP-GASOLINE
DES	12/12/91	2249	NR	ALEXANDRI	P					CAMERON	PP-GASOLINE
CG	01/30/92	1430	NR	FAIRFAX	H/E	20	G	0	U		PP-GASOLINE
DES	02/17/92	1327	NR	ALEXANDRI	FC			N			PP-GASOLINE
DES	02/29/92	0847	NR	PRINCE WIL	FC			N			PP-GASOLINE
DES	03/05/92	1811	NR	FAIRFAX	P	150	G	N			PP-GASOLINE
DES	04/10/92	0816	NR	STAFFORD	FC	1000	G	Y		CREEK	PP-GASOLINE
EPA	04/17/92	1200	NR	PRINCE WIL	M/V	10	G	10	G	OCCUQUAN	PP-GASOLINE
DES	05/04/92	1939	NR	FAUQUIER	FC	15	G	Y		STORM DR	PP-GASOLINE
DES	05/09/92	0926	NR	FAIRFAX	FC	100	G	N			PP-GASOLINE
CG	05/11/92	930	NR	KING GEOR	M	0.25	G	0.25	G	UP MACHO	PP-GASOLINE
DES	05/20/92	0959	VR	CLARKE	FC			N			PP-GASOLINE
DES	06/11/92	1141	NR	STAFFORD	FC			Y		CLAIBORNE	PP-GASOLINE
DES	07/13/92	1157	NR	STAFFORD	H/V			Y		POTOMAC	PP-GASOLINE
DES	08/30/92	1958	TW	WESTMORE	M/V	50	G	Y		MONROE B	PP-GASOLINE
DES	08/31/92	1957	TW	WESTMORE	M/V			Y		MONROE B	PP-GASOLINE
DES	09/30/92	1203	NR	FAIRFAX	FC			N			PP-GASOLINE
DES	11/11/92	1016	NR	ARLINGTON	FC			N			PP-GASOLINE

DES	11/13/92	0856	NR	PRINCE WIL	FC	23000	G	N			PP-GASOLINE
DES	12/02/92	0744	NR	ALEXANDRI	M/V	75	G	Y		POTOMAC	PP-GASOLINE
DES	12/10/92	2254	VR	WARREN	FC			N			PP-GASOLINE
DES	05/22/89	2214	VR	SHENANDO	H/C	22.5	G	N			PP-GASOLINE
DES	05/27/89	0951	NR	ALEXANDRI	FC	4500	G	N			PP-GASOLINE
DES	07/05/89	2310	NR	ALEXANDRI	FC	50	G	Y		HOLMES RU	PP-GASOLINE
DES	12/24/89	0724	NR	LOUDOUN	H/C	900	G	Y		HOUSERS B	PP-GASOLINE
DES	12/26/89	0858	NR	ALEXANDRI	M/V	250	G	Y		POTOMAC	PP-GASOLINE
DES	05/23/90	0213	NR	ALEXANDRI	H/V	25	G	0			PP-GASOLINE
DES	02/09/91	1813	VR	ROCKINGHA	H/C		15	G		Y	PP-GASOLINE
DES	11/08/92	0940	NR	FAIRFAX	FC	175	G	N			PP-GASOLINE
EPA	07/18/89	1200	TW	WESTMORE	T	0	U	0		STORM DR	PP-GASOLINE & WATER MI
DES	07/23/92	1705	NR	FAIRFAX	FC			N			PP-GASOLINE (5600 PPM)
DES	09/10/88	0901	NR	FAIRFAX	P	10000	G	Y		HOLDING P	PP-GASOLINE (UNLEADED
DES	06/24/90	1506	TW	NORTHUMB	M/V			1		LITTLE WIC	PP-GASOLINE - PP-OIL - TR
DES	01/23/90	0143	NR	FAIRFAX	T	129	G	0			PP-GASOLINE - UNLEADED
DES	09/21/90	1147	NR	STAFFORD	P			0			PP-GASOLINE - UNLEADED
EPA	02/03/92	1400	NR	FAIRFAX	P	1500	G	0	U		PP-GASOLINE ADDITIVE, O
DES	04/26/91	1300	VR	HIGHLAND	FC					GW	PP-GASOLINE AND EXPLOS
DES	05/01/88	0830	NR	LOUDOUN	H/C			Y		~	PP-GASOLINE AND PP-OIL
DES	09/04/90	1507	NR	STAFFORD	P			0			PP-GASOLINE CONTAMINA
DES	06/23/90	1228	NR	PRINCE WIL	FC			1		SEWER SY	PP-GASOLINE IN SANITARY
EPA	04/02/90	1100	NR	FAIRFAX	FC	200	G	0		NONE	PP-GASOLINE MIX W/WATE
DES	03/17/88	1608	NR	PRINCE WIL	FC			N		~	PP-GASOLINE TANK
EPA	10/24/89	1030	NR	PRINCE WIL	T	10	G	0		NONE	PP-GASOLINE, 93 OCTANE
EPA	04/29/88	723	NR	MANASSAS	T	230	G	0		STORM SE	PP-GASOLINE, UNLEADED
DES	05/20/88	2019	NR	PRINCE WIL	FC	25	G	N		~	PP-GASOLINE, UNLEADED
DES	01/16/89	1506	NR	FAIRFAX	FC	100	G	N			PP-GASOLINE, UNLEADED
DES	02/16/89	1545	VR	ROCKINGHA	P	2400	G				PP-GASOLINE, UNLEADED
EPA	06/02/89	1000	NR	ALEXANDRI	T	7	G	0		STORM DR	PP-GASOLINE, UNLEADED
EPA	09/27/89	1600	VR	AUGUSTA	T	216	G	0		LEWIS CRE	PP-GASOLINE, UNLEADED
EPA	12/21/89	415	VR	WARREN	T	25	G	0		NONE	PP-GASOLINE, UNLEADED
EPA	01/18/91	1545	NR	FAIRFAX	T	20	G	0		NONE	PP-GASOLINE, UNLEADED
EPA	07/20/91	0	NR	ALEXANDRI	FC	5	G	0		NONE	PP-GASOLINE, UNLEADED
EPA	09/27/91	2030	NR	FAIRFAX	T	35	G	0		NONE	PP-GASOLINE, UNLEADED
EPA	11/25/90	1100	NR	PRINCE WIL	FC	0	U	0		NONE	PP-GASOLINE,BATTERY AC
EPA	10/30/92	1200	NR	STAFFORD	D	0	U	0	U		PP-GASOLINE,PAINT,TOLU
DES	04/08/89	0805	NR	STAFFORD	T	30	G	N			PP-GASOLINE,UNLEADED
EPA	03/28/90	920	NR	FAIRFAX	T	50	G	0		NONE	PP-GASOLINE: AUTOMOTIV
EPA	03/29/90	934	NR	STAFFORD	T	13	G	0		NONE	PP-GASOLINE: AUTOMOTIV
EPA	08/13/90	830	VR	FREDERICK	FC	0	U	0		NONE	PP-GASOLINE: AUTOMOTIV
EPA	09/08/90	1230	NR	FAIRFAX	T	40	G	20	G	SEWER DR	PP-GASOLINE: AUTOMOTIV
EPA	09/15/90	330	NR	FAIRFAX	T	50	G	0		STORM SE	PP-GASOLINE: AUTOMOTIV
EPA	10/27/91	615	VR	ROCKINGHA	H/C	8000	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	12/07/91	2300	NR	MANASSAS	T	25	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	12/19/91	930	NR	FAIRFAX	T	15	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	03/05/92	1720	NR	FAIRFAX	T	150	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	03/18/92	1600	NR	FAIRFAX	FC	0	U	0	U	UNNAMED T	PP-GASOLINE: AUTOMOTIV
EPA	04/20/92	200	NR	FAIRFAX	H/E	700	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	05/09/92	815	NR	FAIRFAX	T	0	U	0	U		PP-GASOLINE: AUTOMOTIV
EPA	05/14/92	2015	NR	FAIRFAX	FC	5	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	05/20/92	920	VR	CLARKE	FC	0	U	0	U		PP-GASOLINE: AUTOMOTIV
EPA	05/31/92	1900	NR	FAIRFAX	T	20	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	06/26/92	720	NR	LOUDOUN	T	20	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	08/03/92	1640	NR	ARLINGTON	U	4	G	4	G	PENTAGON	PP-GASOLINE: AUTOMOTIV
EPA	09/21/92	1400	NR	FAIRFAX	T	25	G	0	N		PP-GASOLINE: AUTOMOTIV

EPA	10/14/92	705	NR	FAIRFAX	P	10	G	0	N		PP-GASOLINE: AUTOMOTIV
EPA	07/28/92	800	NR	PRINCE WIL	FC	23000	G	0	U	NONE	PP-GASOLINES:AUTOMOTI
EPA	11/24/92	715	NR	FAIRFAX	T	50	G	0	U	NONE	PP-GASOLINES:AUTOMOTI
DES	01/21/88	1701	NR	ARLINGTON	H/E	27.5	G	Y		GULF BRAN	PP-KEROSENE
EPA	02/01/89	1515	NR	FAIRFAX	P	5	B	0		NONE	PP-KEROSENE
EPA	10/19/89	1657	NR	PRINCE WIL	FC	200	G	0		NEACSCO C	PP-KEROSENE
EPA	02/20/90	1900	NR	FAIRFAX	T	300	G	0		STORM DR	PP-KEROSENE
DES	02/21/90	1057	NR	ALEXANDRI	FC	300	G	1		HUNTINGTO	PP-KEROSENE
DES	02/21/90	0022	NR	FAIRFAX	FC	250	G	1		CAMERON	PP-KEROSENE
DES	05/10/90	1623	NR	FAIRFAX	H			1		ACCOTINK	PP-KEROSENE
DES	12/30/90	1830	NR	LOUDOUN	FC			1		CREEKS	PP-KEROSENE
DES	01/25/91	1335	NR	LOUDOUN	FC					GW	PP-KEROSENE
DES	03/23/91	1234	NR	LOUDOUN	FC					N	PP-KEROSENE
DES	08/12/91	1014	NR	LOUDOUN	FC	17	G			CREEK	PP-KEROSENE
DES	01/05/92	2226	VR	AUGUSTA	FC	200	G	T		CREEK/LEW	PP-KEROSENE
DES	05/01/92	1745	NR	KING GEOR	FC	35	G	N			PP-KEROSENE
DES	09/12/92	0803	VR	HARRISONB	FC			Y		WELL WAT	PP-KEROSENE
DES	09/25/92	1714	VR	ROCKINGHA	FC	2275	G	N			PP-KEROSENE
DES	11/11/92	1034	NR	ALEXANDRI	FC			N			PP-KEROSENE
DES	05/11/90	2144	NR	ARLINGTON	M	100	G	1		4 MILE RUN/	PP-KEROSENE
EPA	08/09/91	1200	NR	LOUDOUN	D	17	G	0		UNNAMED	PP-KEROSENE & WATER
DES	07/23/91	1248	NR	FAIRFAX	H/C					N	PP-KEROSENE, PAINT, PES
DES	01/01/92	1937	NR	STAFFORD	P			F			PP-METHANE
CG	06/17/88	1400	NR	LOUDOUN	TR/C	1000	G	0	N		PP-MINERAL OIL
DES	04/28/88	0949	TW	WESTMORE	M/V			Y		WICOMICO	PP-OIL
DES	08/28/88	1343	NR	FAIRFAX	FC			Y		STORM DR	PP-OIL
DES	10/20/88	0953	NR	PRINCE WIL	D	15	G	N		~	PP-OIL
CG	05/07/89	1100	NR	PRINCE WIL	U	1	G	1	G	POTOMAC	PP-OIL
DES	08/12/89	1318	NR	PRINCE WIL	H			Y		MANHOLE	PP-OIL
DES	08/31/89	1735	NR	KING GEOR	FC						PP-OIL
DES	09/19/89	1150	NR	FAIRFAX	D	400	G	Y		POND	PP-OIL
DES	09/30/89	1315	NR	FAIRFAX	H			N			PP-OIL
DES	04/30/90	0835	NR	FAIRFAX	D			0			PP-OIL
DES	01/01/91	1000	TW	WESTMORE	FC					POTOMAC	PP-OIL
DES	02/21/91	0920	VR	WARREN	U	100	G			N	PP-OIL
DES	03/27/91	1414	VR	SHENANDO	H/C					CREEK	PP-OIL
DES	04/11/91	1920	NR	FALLS CHU	FC					STORM DR	PP-OIL
DES	05/06/91	1617	NR	ALEXANDRI	M					FOUR MILE	PP-OIL
DES	03/09/92	0853	NR	FAIRFAX	FC			N			PP-OIL
DES	04/06/92	1642	NR	STAFFORD	FC	100	G	Y		RESERVOIR	PP-OIL
DES	05/18/92	1750	VR	AUGUSTA	FC			N			PP-OIL
DES	10/28/92	1435	VR	SHENANDO	D			N			PP-OIL
DES	09/06/88	1411	NR	FAIRFAX	D	1	G	Y		SEQUOLA L	PP-OIL
DES	07/10/92	1400	NR	FAIRFAX	D	25	G	Y		CREEK	PP-OIL WASTE
DES	12/14/90	0917	NR	ARLINGTON	FC	75	G	1		STORM DR	PP-OIL - HOME HEATING
DES	12/29/90	1808	NR	ARLINGTON	FC			1		STORM SE	PP-OIL - HOME HEATING
DES	03/30/90	1047	NR	MANASSAS	H/C			1		LAKE JACK	PP-OIL - MOTOR
DES	08/13/90	1041	NR	ALEXANDRI	D			0			PP-OIL - MOTOR
DES	01/27/90	1532	NR	FAIRFAX	FC	27.5	G	0			PP-OIL - MOTOR
DES	02/27/90	0912	NR	MANASSAS	FC			0			PP-OIL - TRANSMISSION
DES	11/02/90	1204	NR	LOUDOUN	D	55	G	1		STERLING	PP-OIL - USED MOTOR
DES	04/04/90	1047	TW	NORTHUMB	D			1		LODGE CRE	PP-OIL - USED PP-OIL, MOT
DES	01/19/90	1311	VR	ROCKINGHA	T			0			PP-OIL - WASTE
DES	06/28/90	1700	NR	STAFFORD	D			0			PP-OIL - WASTE
DES	11/12/90	1454	NR	PRINCE WIL	FC			0			PP-OIL - WASTE
DES	07/29/88	1347	NR	ALEXANDRI	D			Y		FOUR MILE	PP-OIL AND ANTIFREEZE W

DES	02/27/92	1155	TW	WESTMORE	M/V			Y			MONROE C	PP-OIL AND DIESEL
DES	05/23/89	1316	NR	PRINCE WIL	FC			Y			BEAVER CR	PP-OIL AND KEROSENE
DES	12/13/90	2051	VR	ROCKINGHA	FC			1			NORTH RIV	PP-OIL AND MISC. CHEMIC
DES	08/03/90	1448	NR	FAIRFAX	D			0				PP-OIL AND OTHER PRODU
EPA	08/23/89	2020	NR	ARLINGTON	H	0	U	0			NONE	PP-OIL AND/OR GAS
DES	11/08/89	1850	VR	CLARKE	FC	125	G	N				PP-OIL HEATING
DES	03/07/90	1520	NR	PRINCE WIL	D			0				PP-OIL OF UNKNOWN TYPE
DES	06/17/92	1403	VR	WARREN	FC			Y			WELL WAT	PP-OIL PRODUCT
DES	10/05/92	1700	NR	PRINCE WIL	D			Y			CREEK	PP-OIL PRODUCTS
DES	11/26/90	1727	NR	LOUDOUN	FC			1			GROUND W	PP-OIL SATURATED EARTH
DES	02/17/92	1911	NR	FAIRFAX	M			Y			RIVER TO P	PP-OIL SHEEN
DES	05/18/92	1700	NR	PRINCE WIL	M			Y			CREEK	PP-OIL SHEEN
DES	05/05/91	1941	TW	NORTHUMB	M/V						GT. WICOMI	PP-OIL SPILL
DES	08/21/91	1050	NR	LOUDOUN	D	110	G				SEWER	PP-OIL SUBSTANCE
EPA	07/29/88	0	NR	ALEXANDRI	D	0		0			4 MILE RUN	PP-OIL WASTE
DES	03/07/91	1150	VR	WARREN	FC						CREEK	PP-OIL WASTE, PP-GASOL
EPA	06/26/91	605	NR	ALEXANDRI	FC	0	U	0			NONE	PP-OIL, CABLE
EPA	06/26/91	505	NR	ALEXANDRI	P	50	G	0			NONE	PP-OIL, CABLE
EPA	08/22/90	1330	VR	WAYNESBO	T	1	G	0			SOUTH RIV	PP-OIL, COMPRESSOR
EPA	05/23/89	1143	NR	PRINCE WIL	D	200	G	200	G		BEAVER CR	PP-OIL, CRUDE MIXED W/K
DES	05/04/89	1933	TW	NORTHUMB	H			N				PP-OIL, DEYRIN 50 WP
CG	06/20/91	1700	TW	WESTMORE	FC	1	G	1	G		POTOMAC	PP-OIL, DIESEL
DES	05/05/88	1355	NR	FAIRFAX	FC			N			~	PP-OIL, FUEL
EPA	05/05/88	1300	NR	FAIRFAX	FC	0		0			NONE	PP-OIL, FUEL
DES	09/23/88	0856	NR	ARLINGTON	FC			N			~	PP-OIL, FUEL
DES	11/11/88	0949	VR	FREDERICK	FC	130	G	N			~	PP-OIL, FUEL
DES	11/15/88	1523	NR	FAIRFAX	FC	125	G	N			~	PP-OIL, FUEL
EPA	12/05/88	1221	NR	FAIRFAX	FC	60	G	0			NONE	PP-OIL, FUEL
EPA	01/27/89	0	NR	FAIRFAX	FC	0	U	0			NONE	PP-OIL, FUEL
DES	01/27/89	1109	NR	FAIRFAX	FC			N				PP-OIL, FUEL
EPA	02/03/89	1200	NR	FAIRFAX	FC	300	G	0			NONE	PP-OIL, FUEL
EPA	05/06/89	1500	NR	FAUQUIER	FC	100	G	0			PETER RUN	PP-OIL, FUEL
DES	05/23/89	2240	TW	WESTMORE	FC	150	G	Y			POTOMAC	PP-OIL, FUEL
EPA	07/17/89	900	NR	STAFFORD	FC	250	G	0			WELL WAT	PP-OIL, FUEL
DES	07/18/89	0927	NR	STAFFORD	FC			Y			STORM DR	PP-OIL, FUEL
DES	09/30/89	1921	NR	FAIRFAX	FC	400	G	Y			ACCOTINK	PP-OIL, FUEL
EPA	09/30/89	1037	NR	FAIRFAX	FC	15	G	0			NONE	PP-OIL, FUEL
EPA	11/08/89	1800	VR	CLARKE	FC	150	G	0			SUMP PUM	PP-OIL, FUEL
EPA	12/01/89	1000	NR	FAIRFAX	FC	500	G	0			DRINKING	PP-OIL, FUEL
EPA	12/03/89	2400	NR	ARLINGTON	FC	300	G	0			NONE	PP-OIL, FUEL
EPA	12/06/89	1900	NR	FAIRFAX	FC	400	G	0			NONE	PP-OIL, FUEL
EPA	12/20/89	1000	NR	ARLINGTON	FC	0	U	0			NONE	PP-OIL, FUEL
EPA	01/01/90	1500	NR	ARLINGTON	FC	300	G	0			NONE	PP-OIL, FUEL
DES	01/02/90	0825	NR	ARLINGTON	FC	300	G	0				PP-OIL, FUEL
EPA	01/29/90	1200	VR	SHENANDO	FC	25	G	0			INDIAN SPR	PP-OIL, FUEL
DES	02/01/90	1350	NR	ALEXANDRI	FC	750	G	0				PP-OIL, FUEL
EPA	02/27/90	1030	NR	FAIRFAX	FC	0	U	0			NONE	PP-OIL, FUEL
DES	03/13/90	1223	NR	FAIRFAX	FC	250	G	0				PP-OIL, FUEL
EPA	06/17/90	2300	NR	FAIRFAX	FC	25	G	0			NONE	PP-OIL, FUEL
EPA	08/16/90	930	NR	FAIRFAX	FC	400	G	0			NONE	PP-OIL, FUEL
EPA	08/29/90	900	NR	FAIRFAX	FC	1	G	0			NONE	PP-OIL, FUEL
EPA	10/10/90	1700	NR	FAIRFAX	FC	100	G	0			NONE	PP-OIL, FUEL
DES	10/11/90	0856	NR	FAIRFAX	FC	100	G	0				PP-OIL, FUEL
DES	10/13/90	0529	VR	PAGE	FC	125	G	0				PP-OIL, FUEL
EPA	10/16/90	900	NR	FAIRFAX	FC	2	G	0			NONE	PP-OIL, FUEL
DES	10/27/90	1414	TW	WESTMORE	FC	45	G	0				PP-OIL, FUEL

EPA	11/21/90	1530	NR	FAIRFAX	FC	250	G	0		NONE	PP-OIL, FUEL
DES	11/21/90	1610	NR	FAIRFAX	FC			1		GROUND W	PP-OIL, FUEL
EPA	11/23/90	0	NR	FAIRFAX	FC	0	U	0		ACCOTINK	PP-OIL, FUEL
EPA	11/26/90	0	NR	FAIRFAX	FC	2	G	0		NONE	PP-OIL, FUEL
EPA	12/14/90	845	NR	ARLINGTON	FC	100	G	0		SEWER ?	PP-OIL, FUEL
DES	12/29/90	1300	NR	FAIRFAX	FC			0			PP-OIL, FUEL
EPA	01/10/91	1245	NR	FAIRFAX	FC	0	U	0		NONE	PP-OIL, FUEL
DES	01/23/91	1449	NR	FAIRFAX	FC					N	PP-OIL, FUEL
EPA	01/23/91	1345	NR	FAIRFAX	FC	0	U	0		NONE	PP-OIL, FUEL
DES	01/27/91	1515	VR	WARREN	FC	175	G			N	PP-OIL, FUEL
EPA	01/29/91	1200	NR	FAIRFAX	FC	2	G	0		NONE	PP-OIL, FUEL
EPA	03/28/91	1610	NR	FAIRFAX	FC	5	G	0		NONE	PP-OIL, FUEL
DES	04/02/91	1658	NR	FAIRFAX	FC	200	G			DRAINAGE	PP-OIL, FUEL
DES	04/16/91	1222	NR	STAFFORD	FC	135	G			N	PP-OIL, FUEL
EPA	05/03/91	1722	NR	FAIRFAX	FC	2	G	0		NONE	PP-OIL, FUEL
EPA	06/06/91	930	NR	FAIRFAX	FC	3	G	1	G	DRAIN	PP-OIL, FUEL
EPA	09/18/91	1725	NR	ARLINGTON	FC	5	G	0		NONE	PP-OIL, FUEL
EPA	09/19/91	1600	NR	FAIRFAX	FC	0	U	0		NONE	PP-OIL, FUEL
EPA	09/29/91	1800	NR	FAIRFAX	FC	0.5	G	0		NONE	PP-OIL, FUEL
DES	10/02/91	1700	NR	FAIRFAX	FC	200	G			N	PP-OIL, FUEL
DES	10/03/91	1732	NR	ALEXANDRI	FC					HOLMES RU	PP-OIL, FUEL
CG	10/22/91	1418	NR	PRINCE WIL	FC	5	G	1	G	POTOMAC	PP-OIL, FUEL
EPA	11/26/91	1030	NR	ARLINGTON	FC	0	U	0	U		PP-OIL, FUEL
EPA	12/06/91	1100	VR	FREDERICK	FC	0	U	0	N		PP-OIL, FUEL
DES	12/06/91	1215	VR	WINCHESTE	FC					N	PP-OIL, FUEL
EPA	12/09/91	1400	NR	ARLINGTON	FC	1	G	0	N		PP-OIL, FUEL
EPA	12/10/91	2030	NR	FAIRFAX	FC	1	G	0	N		PP-OIL, FUEL
EPA	12/20/91	2000	NR	ARLINGTON	FC	1	G	0	U	CONCRETE	PP-OIL, FUEL
DES	12/30/91	1449	VR	WAYNESBO	FC	400	G			N	PP-OIL, FUEL
EPA	01/11/92	1937	NR	FAIRFAX	FC	0	U	0	N		PP-OIL, FUEL
EPA	01/19/92	0	NR	ARLINGTON	FC	250	G	50	G	LONGBRAN	PP-OIL, FUEL
EPA	02/02/92	1900	NR	FAIRFAX	FC	0.25	G	0	N		PP-OIL, FUEL
DES	02/27/92	2310	NR	FAIRFAX	FC	125	G	Y		STORM DR	PP-OIL, FUEL
DES	03/21/92	1505	NR	PRINCE WIL	FC			Y		STORM DR	PP-OIL, FUEL
EPA	04/07/92	840	NR	ARLINGTON	FC	1	G	0	N		PP-OIL, FUEL
DES	04/10/92	1550	NR	FAIRFAX	FC	200	G	Y		MASON RU	PP-OIL, FUEL
DES	04/28/92	0848	NR	LOUDOUN	FC			N			PP-OIL, FUEL
EPA	05/28/92	940	NR	FAIRFAX	FC	80	G	0	N		PP-OIL, FUEL
DES	07/01/92	1625	NR	FAIRFAX	FC			N			PP-OIL, FUEL
EPA	07/16/92	1109	NR	ALEXANDRI	FC	1	G	0	N		PP-OIL, FUEL
EPA	07/20/92	600	NR	FAIRFAX	FC	800	G	0	U	STORM SE	PP-OIL, FUEL
EPA	07/31/92	1620	NR	ARLINGTON	FC	0	U	0	N		PP-OIL, FUEL
DES	07/31/92	1700	NR	ARLINGTON	FC			N			PP-OIL, FUEL
EPA	08/21/92	1230	NR	FAIRFAX	FC	250	G	0	N		PP-OIL, FUEL
EPA	08/22/92	1330	NR	FAIRFAX	FC	0	U	0	U	NONE	PP-OIL, FUEL
EPA	09/17/92	1815	NR	FAIRFAX	FC	10	G	0	N		PP-OIL, FUEL
EPA	09/29/92	1400	NR	PRINCE WIL	FC	0	U	0	U		PP-OIL, FUEL
EPA	10/20/92	950	NR	FAIRFAX	FC	0	U	0	N		PP-OIL, FUEL
EPA	11/01/92	1600	NR	PRINCE WIL	FC	0	U	0	U		PP-OIL, FUEL
DES	11/06/92	1121	NR	LOUDOUN	FC	250	G	Y		ELKLICK RU	PP-OIL, FUEL
CG	11/27/92	1545	TW	WESTMORE	H/V	250	G	250	G		PP-OIL, FUEL
EPA	12/03/92	800	NR	FAIRFAX	FC	300	G	0	N		PP-OIL, FUEL
EPA	12/04/92	1815	NR	FAIRFAX	FC	2	G	0	N		PP-OIL, FUEL
CG	12/15/92	830	TW	NORTHUMB	FC	5	G	5	G	COCKRELL	PP-OIL, FUEL
EPA	12/19/92	1236	NR	FAIRFAX	FC	1	G	0	N		PP-OIL, FUEL
EPA	12/26/92	400	NR	FAIRFAX	FC	150	G	0	N		PP-OIL, FUEL

DES	12/30/92	1229	NR	FAIRFAX	FC	200	G	N			PP-OIL, FUEL
DES	12/16/88	0315	NR	ALEXANDRI	FC			N		~	PP-OIL, FUEL NO. 6
DES	03/15/91	1713	NR	FAIRFAX	FC					N	PP-OIL, FUEL NO. 6
EPA	05/07/92	0	NR	PRINCE WIL	FC	0	U	0	U	UNNAMED	PP-OIL, FUEL NO. 6
DES	11/24/92	1350	NR	PRINCE WIL	FC			N			PP-OIL, FUEL NO. 6
CG	12/03/91	2000	NR	FAIRFAX	FC	1	G	0	U		PP-OIL, FUEL2
CG	11/14/88	2300	NR	FAIRFAX	FC	125	G	0	N		PP-OIL, HEATING
EPA	02/07/90	1130	NR	ALEXANDRI	T	1	G	0		NONE	PP-OIL, HEATING
DES	09/18/91	1008	NR	LOUDOUN	FC					N	PP-OIL, HEATING
EPA	11/04/91	1104	NR	ARLINGTON	T	2	G	0		NONE	PP-OIL, HEATING
DES	01/22/92	1135	VR	WARREN	FC			T		UNKNOWN	PP-OIL, HEATING
DES	04/02/92	1640	NR	FAIRFAX	FC	5000	G	N			PP-OIL, HEATING
DES	05/31/92	1113	TW	WESTMORE	FC	100	G	N			PP-OIL, HEATING
DES	12/26/92	1903	NR	FAIRFAX	FC	150	G	N			PP-OIL, HEATING
DES	07/25/89	2210	NR	FAIRFAX	H			Y		RABBIT BRA	PP-OIL, HHEATING
CG	07/18/89	900	NR	STAFFORD	FC	250	G	0	U		PP-OIL, HOME HEATING
DES	10/29/92	2200	NR	FAIRFAX	FC			N			PP-OIL, HOME HEATING
DES	12/26/92	2228	NR	ARLINGTON	FC			N			PP-OIL, HOME HEATING
EPA	08/04/88	900	NR	ALEXANDRI	H/E	0		0		NONE	PP-OIL, HYDRAULIC
DES	08/05/88	1110	NR	ALEXANDRI	H/C			N		~	PP-OIL, HYDRAULIC
EPA	07/10/89	1700	NR	PRINCE WIL	M/V	3	G	0		OCCOQUAN	PP-OIL, HYDRAULIC
EPA	10/06/89	1143	NR	STAFFORD	H/V	50	G	0		NONE	PP-OIL, HYDRAULIC
EPA	04/12/90	1200	VR	WINCHESTE	FC	0	U	0		SEWER TO	PP-OIL, HYDRAULIC
DES	05/03/91	1942	NR	ALEXANDRI	H/C			'		N	PP-OIL, HYDRAULIC
DES	07/03/91	1415	VR	HARRISONB	FC					BLACKS RU	PP-OIL, HYDRAULIC
EPA	10/01/91	1200	NR	ARLINGTON	FC	150	G	0		NONE	PP-OIL, HYDRAULIC
DES	10/11/91	0857	NR	ARLINGTON	FC	150	G			N	PP-OIL, HYDRAULIC
DES	03/07/92	1028	NR	KING GEOR	M/C	25	G	Y		STORM DR	PP-OIL, HYDRAULIC
EPA	05/28/92	1245	NR	STAFFORD	T	8	G	0	N		PP-OIL, HYDRAULIC
EPA	06/06/92	900	NR	LOUDOUN	FC	50	G	0	N		PP-OIL, HYDRAULIC
CG	09/24/92	1100	NR	STAFFORD	H/E	110	G	0.5	G		PP-OIL, HYDRAULIC
EPA	10/19/92	100	NR	PRINCE WIL	D	45	G	0	N		PP-OIL, HYDRAULIC
DES	04/24/89	1725	NR	PRINCE WIL	D			N			PP-OIL, HYDRAULIC AND I
EPA	06/03/88	1000	NR	ARLINGTON	U	0		0		NONE	PP-OIL, HYDRAULICFLUID
DES	06/02/89	1905	NR	FAIRFAX	T			Y		OCCOQUAN	PP-OIL, HYDRAULICFLUID
DES	05/28/92	1345	NR	STAFFORD	H/C			N			PP-OIL, HYDRAULICFLUID
DES	06/15/92	1936	NR	ALEXANDRI	FC	225	G	N			PP-OIL, HYDRAULICFLUID
DES	06/18/90	1526	NR	PRINCE WIL	H	12	G	1		OCCOQUAN	PP-OIL, HYDRAULICFLUID
CG	11/04/88	1150	NR	PRINCE WIL	FC	1	G	1	G	POTOMAC	PP-OIL, LUBE
DES	10/22/92	1824	NR	FAIRFAX	FC	500	G	Y		STORM SE	PP-OIL, LUBE
CG	03/31/88	1445	NR	PRINCE WIL	FC	5	G	5	G	POTOMAC	PP-OIL, LUBRICATING
EPA	06/17/88	1400	NR	PRINCE WIL	TR/C	1	G	0		NONE	PP-OIL, MINERAL
EPA	08/24/88	1800	NR	ALEXANDRI	TR/C	150	G	0		NONE	PP-OIL, MINERAL
DES	06/10/90	0156	NR	FAIRFAX	TR/C	15	G	1		UNKNOWN	PP-OIL, MINERAL
DES	09/20/90	1656	NR	FAIRFAX	TR/C	65	G	0			PP-OIL, MINERAL
EPA	02/15/91	1200	VR	FREDERICK	FC	20	G	0		SEWER	PP-OIL, MINERAL
EPA	03/07/91	0	VR	AUGUSTA	D	4	P	0		NONE	PP-OIL, MINERAL
EPA	05/10/91	500	NR	FAIRFAX	TR/C	10000	G	3000	G	SUGAR LAN	PP-OIL, MINERAL
DES	10/28/91	1658	VR	AUGUSTA	U	10	G			N	PP-OIL, MINERAL
EPA	07/30/92	1640	NR	ALEXANDRI	TR/C	200	G	0		STORM SE	PP-OIL, MINERAL
DES	04/08/92	2245	NR	ALEXANDRI	TR/C	15	G	N			PP-OIL, MINERAL NO PCB
DES	09/12/90	0752	NR	STAFFORD	TR/C	0.5	G	0			PP-OIL, MINERAL(NO PBC
DES	07/24/91	0023	VR	AUGUSTA	U	1	G			N	PP-OIL, MINERAL(NO PCB
EPA	01/22/92	1630	VR	AUGUSTA	FC	1	G	1	G	SOUTH RIV	PP-OIL, MISC: LUBRICATIN
EPA	01/30/92	1100	NR	ALEXANDRI	R/V	30	G	0	N		PP-OIL, MISC: LUBRICATIN
EPA	12/26/90	1300	NR	PRINCE WIL	TR/C	1	G	0		NONE	PP-OIL, MISC: MINERAL

EPA	12/20/92	415	NR	PRINCE WIL	H/V	25	G	10	G	STORM DR	PP-OIL, MISC: MINERAL
EPA	04/03/90	1300	TW	NORTHUMB	D	0	U	0		LODGE CRE	PP-OIL, MISC: MOTOR
EPA	04/27/90	1300	NR	FALLS CHU	D	0	U	0		NONE	PP-OIL, MISC: MOTOR
EPA	05/24/90	1230	VR	STAUNTON	D	0	U	0		UNKNOWN	PP-OIL, MISC: MOTOR
EPA	06/22/90	1200	NR	STAFFORD	D	11	G	0		SEWER DR	PP-OIL, MISC: MOTOR
EPA	08/06/90	0	NR	ALEXANDRI	D	0	U	0		NONE	PP-OIL, MISC: MOTOR
EPA	06/15/91	0	VR	PAGE	D	220	G	0		NONE	PP-OIL, MISC: MOTOR
EPA	10/06/91	2000	VR	SHENANDO	D	0	U	0		NONE	PP-OIL, MISC: MOTOR
EPA	04/01/92	1200	VR	ROCKINGHA	D	0	U	0	U		PP-OIL, MISC: MOTOR
EPA	05/26/92	900	NR	FAIRFAX	D	0	U	0	U	DOGUE CR	PP-OIL, MISC: MOTOR
EPA	10/05/92	1200	NR	PRINCE WIL	D	0	U	0	U	UNKNOWN	PP-OIL, MISC: MOTOR&LUB
DES	04/09/88	1919	TW	WESTMORE	D			Y		~	PP-OIL, MOTOR
EPA	05/20/88	0	NR	ALEXANDRI	D	50	G	0		SMALL CK.T	PP-OIL, MOTOR
DES	05/20/88	1545	NR	ALEXANDRI	FC	400	G	N		~	PP-OIL, MOTOR
DES	07/02/88	1207	VR	ROCKINGHA	D			N		~	PP-OIL, MOTOR
CG	07/06/88	1700	NR	FAIRFAX	D	0	U	0	U		PP-OIL, MOTOR
DES	07/07/88	1233	NR	FAIRFAX	D			N		~	PP-OIL, MOTOR
CG	07/28/88	1200	NR	STAFFORD	FC	0	U	0	U		PP-OIL, MOTOR
EPA	08/29/88	0	NR	FAIRFAX	FC	0		0		NONE	PP-OIL, MOTOR
EPA	09/14/88	1525	NR	ALEXANDRI	FC	100	G	0			PP-OIL, MOTOR
EPA	11/10/88	1300	NR	FAIRFAX	D	2	BAG	0		FARMERS P	PP-OIL, MOTOR
EPA	04/06/89	1200	VR	AUGUSTA	FC	3000	G	0		NONE	PP-OIL, MOTOR
DES	04/07/89	1353	VR	AUGUSTA	FC	3000	G	N			PP-OIL, MOTOR
EPA	08/08/89	0	NR	LOUDOUN	D	0	U	0		NONE	PP-OIL, MOTOR
EPA	08/25/89	1230	NR	ARLINGTON	T	15	G	0		NONE	PP-OIL, MOTOR
EPA	10/13/89	1545	NR	FAIRFAX	D	0	U	0		STORM DR	PP-OIL, MOTOR
DES	05/19/90	1548	NR	PRINCE WIL	D			0			PP-OIL, MOTOR
DES	05/24/90	1340	VR	AUGUSTA	D			0			PP-OIL, MOTOR
EPA	06/30/90	1815	NR	FAIRFAX	D	0	U	0		UNKNOWN	PP-OIL, MOTOR
EPA	02/01/91	0	NR	FAIRFAX	H/E	0	U	0		SEWER	PP-OIL, MOTOR
EPA	04/04/92	0	NR	ARLINGTON	D	0	U	0	U	NONE	PP-OIL, MOTOR
DES	10/25/91	1723	NR	ALEXANDRI	FC	550	G			GW	PP-OIL, MOTOR
EPA	04/24/89	1500	NR	MANASSAS	FC	0	U	0		NONE KNO	PP-OIL, MOTOR & HYDRAU
EPA	02/01/89	1628	NR	ARLINGTON	U	0	U	0		FOURMILE	PP-OIL, MOTOR & SOLVENT
DES	09/14/88	1603	NR	ALEXANDRI	FC			~		~	PP-OIL, MOTOR (USED)
DES	11/10/88	1714	NR	FAIRFAX	FC			Y		~	PP-OIL, MOTOR (USED)
DES	06/18/90	1005	NR	MANASSAS	FC			1		STORM DR	PP-OIL, MOTOR - ANTIFREE
DES	08/08/89	1055	NR	LOUDOUN	FC			N			PP-OIL, MOTOR WASTE
DES	08/01/88	2022	TW	NORTHUMB	M/V			Y		COCKRELL	PP-OIL, MOTOR/PP-GASOLI
CG	02/14/90	425	NR	PRINCE WIL	M	5	G	5	G	POTOMAC	PP-OIL, OSX
CG	08/13/90	700	NR	PRINCE WIL	M	5	G	5	G	POTOMAC	PP-OIL, OSX
CG	07/06/91	640	NR	PRINCE WIL	FC	1	G	1	G	POTOMAC	PP-OIL, OSX
DES	05/21/92	0806	VR	HARRISONB	R/C			Y		BLACKS RU	PP-OIL, PP-FUEL
EPA	02/12/88	900	NR	ALEXANDRI	T	50	G	0		NONE	PP-OIL, PP-FUEL NO. 2
EPA	09/01/89	1000	NR	PRINCE WIL	T	10	G	0		SEWER DR	PP-OIL, PP-FUEL NO. 4
EPA	06/03/92	300	NR	PRINCE WIL	H/V	150	G	0	N		PP-OIL, PP-FUEL: NO. 1-D
EPA	02/19/90	930	NR	FAIRFAX	T	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	02/24/90	945	NR	FAIRFAX	T	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	03/01/90	1315	NR	FAIRFAX	H/E	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	03/13/90	1200	NR	FAIRFAX	T	300	G	0		UNKNOWN	PP-OIL, PP-FUEL: NO. 2
EPA	03/13/90	1130	NR	FAIRFAX	T	275	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	03/27/90	1300	NR	FAIRFAX	H/V	0	U	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	06/08/90	1200	NR	FAIRFAX	H/V	20	G	0		UNNAMED P	PP-OIL, PP-FUEL: NO. 2
EPA	10/22/90	1000	NR	PRINCE WIL	U	0	U	0		DRAINAGE	PP-OIL, PP-FUEL: NO. 2
EPA	11/29/90	1030	NR	FAIRFAX	T	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	01/25/91	715	NR	ARLINGTON	H/E	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2

EPA	01/31/91	1025	NR	PRINCE WIL	T	2	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	03/08/91	1	NR	FAIRFAX	R/V	160	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	03/15/91	1310	NR	FAIRFAX	T	0.25	O	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	04/18/91	910	NR	FAIRFAX	T	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	05/15/91	1100	NR	FAIRFAX	P	25	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	08/27/91	815	VR	WAYNESBO	H/C	2500	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	09/10/91	1500	NR	FAUQUIER	D	0	U	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	09/27/91	1430	NR	FAIRFAX	T	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	10/02/91	1625	NR	FAIRFAX	T	0	U	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	10/03/91	1725	NR	ALEXANDRI	U	5000	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	12/26/91	830	NR	FAIRFAX	T	5	G	0	N		PP-OIL, PP-FUEL: NO. 2
EPA	03/25/92	1600	NR	FAIRFAX	T	1	G	0	N		PP-OIL, PP-FUEL: NO. 2
EPA	04/10/92	1400	NR	FAIRFAX	T	200	G	100	G	MASON RU	PP-OIL, PP-FUEL: NO. 2
EPA	07/01/92	1500	NR	FAIRFAX	T	0	U	0	N		PP-OIL, PP-FUEL: NO. 2
EPA	10/12/92	1130	NR	ARLINGTON	T	1	G	0	N		PP-OIL, PP-FUEL: NO. 2
EPA	10/21/92	1200	NR	FAIRFAX	T	1	G	0	N		PP-OIL, PP-FUEL: NO. 2
EPA	12/29/92	1200	NR	FAIRFAX	T	2	G	0	N		PP-OIL, PP-FUEL: NO. 2
EPA	11/05/92	710	NR	PRINCE WIL	D	20	G	0	N		PP-OIL, PP-FUEL: NO. 2-D
EPA	11/14/90	1500	VR	PAGE	P	200	G	0		UNKNOWN	PP-OIL, PP-FUEL: NO. 5
EPA	03/14/90	900	NR	FAIRFAX	T	150	G	0		NONE	PP-OIL, PP-FUEL: NO. 6
EPA	03/16/88	1245	NR	ARLINGTON	T	25	G	0		STORM DR	PP-OIL, PP-FUEL: NO. 2
EPA	08/23/88	1700	NR	ARLINGTON	T	0	U	0		STORM SE	PP-OIL, PP-FUEL: NO. 2
EPA	01/06/89	1600	VR	HARRISONB	T	100	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	03/24/89	915	VR	HARRISONB	T	15	G	0		STORM SE	PP-OIL, PP-FUEL: NO. 2
DES	10/17/89	1142	NR	PRINCE WIL	H/C	1800	G	Y		CHESTNUT	PP-OIL, PP-FUEL: NO. 2
DES	12/07/89	1027	NR	FALLS CHU	P	325	G	N			PP-OIL, PP-FUEL: NO. 2
DES	12/30/89	1232	NR	PRINCE WIL	M/V			Y		POTOMAC	PP-OIL, PP-FUEL: NO. 2
EPA	01/22/90	730	NR	FAIRFAX	T	3	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	01/23/90	1750	NR	ARLINGTON	H/E	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	01/31/90	1245	NR	FAIRFAX	T	750	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	02/15/90	1630	NR	FAIRFAX	T	1	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
DES	03/27/90	2057	NR	FAIRFAX	H/C			1		TURKEY RU	PP-OIL, PP-FUEL: NO. 2
EPA	06/18/90	1345	NR	PRINCE WIL	H/V	30	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
DES	06/18/90	1537	NR	STAFFORD	H/V	30	G	0			PP-OIL, PP-FUEL: NO. 2
DES	08/03/90	1026	NR	ALEXANDRI	H/C	280	G	1		STORM DR	PP-OIL, PP-FUEL: NO. 2
DES	10/16/90	1005	NR	FAIRFAX	T			0			PP-OIL, PP-FUEL: NO. 2
EPA	11/02/90	0	NR	PRINCE WIL	T	3	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
DES	03/11/91	0945	NR	FAIRFAX	R/C	160	G			N	PP-OIL, PP-FUEL: NO. 2
EPA	05/06/91	1400	NR	ALEXANDRI	U	20	G	0		FOUR MILE	PP-OIL, PP-FUEL: NO. 2
EPA	06/25/91	1400	NR	FAIRFAX	P	40	G	0		NONE	PP-OIL, PP-FUEL: NO. 2
EPA	04/27/92	1330	NR	LOUDOUN	T	0	U	0	U	NONE	PP-OIL, PP-FUEL: NO. 2
DES	07/20/92	1111	NR	FAIRFAX	P	700	G	Y		STORM DR	PP-OIL, PP-FUEL: NO. 2
DES	11/27/92	1610	TW	WESTMORE	H/C	400	G	Y		TRIB. TO P	PP-OIL, PP-FUEL: NO. 2
DES	02/19/89	1346	NR	FAIRFAX	P	500	G	Y		POTOMAC T	PP-OIL, PP-FUEL: NO. 2
DES	12/28/91	1014	NR	ARLINGTON	P	2000	G			DRAIN SYS	PP-OIL, PP-FUEL: NO. 4
DES	11/15/90	1303	VR	PAGE	P	200	G	0			PP-OIL, PP-FUEL: NO. 5
DES	09/01/89	1650	NR	ARLINGTON	H	200	G	Y		POTOMAC	PP-OIL, PP-FUEL: NO. 6
EPA	09/28/89	1940	NR	FAUQUIER	R/V	3000	G	0		NONE	PP-OIL, PP-FUEL:NO. 2
DES	12/21/89	0908	NR	ARLINGTON	H			Y		POACHES R	PP-OIL, PP-FUEL:NO. 2
DES	12/29/89	0826	NR	PRINCE WIL	P	420	G	N			PP-OIL, PP-FUEL:NO. 2
DES	04/19/90	1011	NR	PRINCE WIL	H/C	400	G	0			PP-OIL, PP-FUEL:NO. 2
EPA	12/16/88	200	NR	ARLINGTON	U	0	U	0		PENTAGON	PP-OIL, PP-FUEL:NO. 6
EPA	11/02/89	730	NR	PRINCE WIL	T	50	G	0		NONE	PP-OIL, PP-FUEL:NO. 6
EPA	05/11/92	730	NR	FAIRFAX	T	250	G	250	G	UNNAMED	PP-OIL, PP-FUEL:NO. 6
EPA	04/10/89	1030	NR	ARLINGTON	D	0	U	0		POTOMAC	PP-OIL, RAINBOW SHEEN
EPA	09/11/92	0	NR	FAIRFAX	FC	0	U	0		NONE	PP-OIL, SLOP

DES	05/21/92	1510	VR	ROCKINGHA	D			Y		CREEK TO	PP-OIL, TIRES, BATTERIES
CG	08/19/92	1730	NR	FAIRFAX	FC	5	G	0	U		PP-OIL, TRANS
DES	10/01/88	2217	NR	FAIRFAX	H			N		~	PP-OIL, TRANS-NO PCB
EPA	02/17/89	1430	NR	ALEXANDRI	TR/C	15	G	0		NONE	PP-OIL, TRANSFORMER
DES	09/16/89	1440	NR	PRINCE WIL	TR/C	22	G	Y		BROAD RUN	PP-OIL, TRANSFORMER
EPA	09/16/89	1354	NR	PRINCE WIL	TR/C	33	G	0		PINEY BRA	PP-OIL, TRANSFORMER
DES	08/14/90	1615	NR	LOUDOUN	TR/CAP			0			PP-OIL, TRANSFORMER
DES	08/29/90	1723	TW	NORTHUMB	TR/CAP			0			PP-OIL, TRANSFORMER
DES	12/03/91	1258	NR	FAIRFAX	TR/C	25	G			SCOTT'S RU	PP-OIL, TRANSFORMER
EPA	02/21/91	930	NR	ARLINGTON	D	4	O	0		NONE	PP-OIL, TRANSMISSION FL
DES	05/20/91	1750	NR	PRINCE WIL	FC					Y	PP-OIL, TRANSMISSION FL
EPA	02/26/90	0	NR	PRINCE WIL	FC	30	G	0		NONE	PP-OIL, TRANSMISSION PP-
EPA	09/03/88	1130	NR	FALLS CHU	D	1	G	0		SEQUOLA L	PP-OIL, UNKNOWN
EPA	09/05/88	0	NR	ARLINGTON	U	2	G	0			PP-OIL, UNKNOWN
EPA	02/27/89	0	NR	FAIRFAX	D	0	U	0		STORM SE	PP-OIL, UNKNOWN
EPA	04/14/89	1630	NR	FAIRFAX	U	0	U	0		UNNAMED	PP-OIL, UNKNOWN
EPA	06/27/89	900	NR	FAIRFAX	FC	0	U	0		NONE	PP-OIL, UNKNOWN
EPA	07/26/89	1000	NR	STAFFORD	U	0	U	0		CLAYBORN	PP-OIL, UNKNOWN
EPA	08/31/89	0	NR	KING GEOR	FC	0	U	0		NONE	PP-OIL, UNKNOWN
EPA	09/29/89	2100	NR	FAIRFAX	T	400	G	0		ACCONTINK	PP-OIL, UNKNOWN
EPA	02/01/90	900	NR	FAIRFAX	U	20	G	0		FLAG RUN	PP-OIL, UNKNOWN
EPA	03/06/90	900	NR	PRINCE WIL	D	0	U	0		UNKNOWN	PP-OIL, UNKNOWN
EPA	04/03/90	1530	NR	PRINCE WIL	U	0	U	0		DRAINAGE	PP-OIL, UNKNOWN
EPA	05/11/90	1600	NR	ARLINGTON	U	0	U	0		FOUR MILE	PP-OIL, UNKNOWN
EPA	08/14/90	1545	VR	AUGUSTA	FC	3	G	0		SOUTH RIV	PP-OIL, UNKNOWN
EPA	08/30/90	1640	NR	PRINCE WIL	U	0	U	0		OCCOQUAN	PP-OIL, UNKNOWN
EPA	09/06/90	1030	NR	KING GEOR	U	2	G	0		MACHODOC	PP-OIL, UNKNOWN
EPA	10/27/90	1310	NR	STAFFORD	U	0	U	0		NONE	PP-OIL, UNKNOWN
EPA	11/11/90	2340	NR	FAIRFAX	U	2	G	0		(POSS. UNN	PP-OIL, UNKNOWN
EPA	12/29/90	1300	NR	FAIRFAX	FC	0	U	0		NONE	PP-OIL, UNKNOWN
EPA	01/03/91	1000	NR	FAIRFAX	D	0	U	0		NONE	PP-OIL, UNKNOWN
EPA	01/16/91	1200	NR	PRINCE WIL	FC	0	U	0		NONE	PP-OIL, UNKNOWN
EPA	04/11/91	1800	NR	FALLS CHU	U	0	U	0		STORM DR	PP-OIL, UNKNOWN
EPA	04/11/91	700	NR	ALEXANDRI	U	0	U	0		POTOMAC	PP-OIL, UNKNOWN
EPA	04/25/91	1200	NR	STAFFORD	FC	50	G	0		NONE	PP-OIL, UNKNOWN
CG	05/06/91	1400	NR	FAIRFAX	U	0	U	0	U	FOUR MILE	PP-OIL, UNKNOWN
EPA	06/22/91	1815	VR	PAGE	U	0	U	0		DOVEL HOL	PP-OIL, UNKNOWN
EPA	08/01/91	915	NR	FAIRFAX	FC	0	U	0		NONE	PP-OIL, UNKNOWN
CG	09/03/91	1400	NR	FAIRFAX	M	0	U	0	U	POTOMAC	PP-OIL, UNKNOWN
CG	09/30/91	1320	NR	FAIRFAX	D	55	G	55	G		PP-OIL, UNKNOWN
EPA	09/30/91	1140	NR	ARLINGTON	D	0	U	0		SEWER DR	PP-OIL, UNKNOWN
EPA	11/06/91	1630	NR	FAIRFAX	U	0	U	0		JILES RUN	PP-OIL, UNKNOWN
EPA	03/05/92	0	NR	STAFFORD	FC	0	U	0	P	NONE	PP-OIL, UNKNOWN
EPA	05/18/92	1645	NR	PRINCE WIL	U	0	U	0	U	SMALL CRE	PP-OIL, UNKNOWN
EPA	05/21/92	1200	NR	FAIRFAX	FC	0	U	0	U		PP-OIL, UNKNOWN
EPA	06/17/92	1100	VR	WARREN	DUST	0	U	0	U		PP-OIL, UNKNOWN
EPA	07/01/92	800	NR	FAIRFAX	M	0	U	0	U	PATOMAC	PP-OIL, UNKNOWN
EPA	07/06/92	1115	NR	KING GEOR	U	0	U	0	U	MOUTH OF	PP-OIL, UNKNOWN
CG	08/30/92	1913	TW	WESTMORE	M	50	G	50	G	MONROE B	PP-OIL, UNKNOWN
CG	10/24/92	1100	VR	SHENANDO	D	0	U	0	U		PP-OIL, UNKNOWN
EPA	10/27/92	830	NR	ALEXANDRI	FC	0	U	0	U		PP-OIL, UNKNOWN
EPA	12/29/92	1045	VR	AUGUSTA	U	1	G	1	G	SOUTH RIV	PP-OIL, UNKNOWN
EPA	04/11/91	1800	NR	FALLS CHU	U	0	U	0		STORM DR	PP-OIL, UNKNOWN LIGHT P
EPA	08/29/89	1305	NR	ARLINGTON	U	20	G	0		POTOMAC	PP-OIL, UNKNOWN, POSSIB
CG	04/04/89	1810	NR	FAIRFAX	D	0	U	0	U		PP-OIL, USED MOTOR
DES	07/31/92	1213	NR	ALEXANDRI	FC	110	G	N			PP-OIL, USED MOTOR

DES	09/17/92	1523	NR	FAIRFAX	FC			N			PP-OIL, USED MOTOR
DES	06/18/91	1035	VR	PAGE	D	220	G			N	PP-OIL, USED MOTOR
CG	08/29/88	0	NR	FAIRFAX	FC	15	G	0	N		PP-OIL, WASTE
DES	12/03/88	1504	NR	FAIRFAX	FC			Y		CREEK	PP-OIL, WASTE
EPA	04/27/89	930	NR	ALEXANDRI	FC	1	G	0		NONE	PP-OIL, WASTE
EPA	07/17/89	1030	NR	ALEXANDRI	D	0	U	0		POTOMAC	PP-OIL, WASTE
EPA	09/19/89	0	NR	FAIRFAX	D	400	G	0		UNKNOWN	PP-OIL, WASTE
EPA	10/01/89	1200	VR	ROCKINGHA	D	0	U	0		NONE	PP-OIL, WASTE
EPA	12/27/89	1100	NR	FAIRFAX	FC	40	G	0		LONG BRAN	PP-OIL, WASTE
EPA	06/18/90	1900	NR	FAIRFAX	T	0	U	0		STORM DR	PP-OIL, WASTE
DES	06/19/90	1815	NR	FAIRFAX	FC			1		STORM DR	PP-OIL, WASTE
EPA	08/17/90	0	VR	WINCHESTE	D	0	U	0		FLOOR DRA	PP-OIL, WASTE
CG	12/18/90	1322	NR	FAIRFAX	D	4000	G	4000	G	LONG BRAN	PP-OIL, WASTE
EPA	01/14/91	1000	NR	KING GEOR	D	0	U	0		UNKNOWN I	PP-OIL, WASTE
DES	07/22/91	0826	NR	FAIRFAX	D					N	PP-OIL, WASTE
EPA	06/01/92	1300	NR	FAIRFAX	D	0	U	0	U		PP-OIL, WASTE
EPA	09/17/92	0	NR	FAIRFAX	D	0	U	0	U		PP-OIL, WASTE
EPA	11/09/92	1430	NR	PRINCE WIL	T	0	U	0	U		PP-OIL, WASTE
EPA	08/09/90	1100	NR	LOUDOUN	FC	0	U	0		UNKNOWN	PP-OIL, WASTE & BATTERY
DES	08/10/90	1557	NR	LOUDOUN	FC			0			PP-OIL, WASTE AND BATTE
DES	10/08/91	1011	VR	STAUNTON	D	200	G			N	PP-OIL, WASTE AND LUBRI
DES	01/14/91	1320	NR	KING GEOR	D					N	PP-OIL, WASTE AND TIRES
CG	02/27/92	830	TW	WESTMORE	M	0	U	0	U	MONROE C	PP-OIL, WASTE,LUBE
EPA	03/07/91	0	VR	WARREN	D	0	U	0		2 - UNNAME	PP-OIL, WASTE,PP-GASOLI
EPA	01/13/91	1248	NR	FAIRFAX	D	2	G	0		UNNAMED	PP-OIL, WASTE/LUBRICANT
EPA	10/07/91	1200	VR	AUGUSTA	D	200	G	0		NONE	PP-OIL, WASTE/LUBRICANT
EPA	07/18/90	2100	NR	FAIRFAX	D	0	U	0		DRAINAGE	PP-OIL, WASTE/LUBRICANT
EPA	04/07/92	1200	NR	FAIRFAX	D	1	G	0	U		PP-OIL, WASTE/LUBRICANT
EPA	12/17/90	2230	NR	FAIRFAX	U	0	U	0		ACCOTINK	PP-OIL, WASTE/LUBRICANT
EPA	01/31/91	1300	NR	FAIRFAX	FC	0	U	0		NONE	PP-OIL, WASTE/LUBRICANT
EPA	05/12/89	900	NR	ARLINGTON	D	0	U	0		SMALL STR	PP-OIL,CEMENT,DEBRIS
DES	05/10/92	2019	NR	PRINCE WIL	D			Y		CREEK	PP-OIL/ANTI-FREEZE
DES	05/19/92	1446	VR	ROCKINGHA	D			Y		STREAM	PP-OIL/FREON
EPA	01/01/90	1200	NR	STAFFORD	D	0	U	0		UNNAMED	PP-OIL: DIESEL
EPA	03/29/90	1515	NR	FAIRFAX	T	100	G	0		STORM DR	PP-OIL: DIESEL
EPA	04/23/90	1400	VR	WINCHESTE	T	20	G	0		ABRAMS CR	PP-OIL: DIESEL
EPA	07/13/90	1315	NR	PRINCE WIL	H/V	30	G	0		NONE	PP-OIL: DIESEL
EPA	08/22/90	1100	VR	AUGUSTA	H/E	0.5	G	0		SOUTH RIV	PP-OIL: DIESEL
EPA	08/23/90	1130	NR	PRINCE WIL	FC	30	G	0		NONE	PP-OIL: DIESEL
EPA	10/09/90	1645	NR	FAIRFAX	H/V	50	G	0		STORM SE	PP-OIL: DIESEL
EPA	10/10/90	1158	NR	STAFFORD	H/V	0	U	0		STORM DR	PP-OIL: DIESEL
EPA	04/02/91	1228	NR	FAIRFAX	T	200	G	0		NONE	PP-OIL: DIESEL
EPA	04/14/91	1630	NR	PRINCE WIL	R/V	1000	G	0		NONE	PP-OIL: DIESEL
EPA	04/27/91	250	NR	PRINCE WIL	R/V	15	G	0		NONE	PP-OIL: DIESEL
EPA	04/30/91	1500	NR	ARLINGTON	FC	2	G	0		NONE	PP-OIL: DIESEL
EPA	07/22/91	1550	NR	FAIRFAX	T	36	G	0		NONE	PP-OIL: DIESEL
EPA	10/09/91	800	NR	FAIRFAX	T	0.99	G	0		NONE	PP-OIL: DIESEL
EPA	10/25/91	1205	NR	FAIRFAX	T	6	G	0		NONE	PP-OIL: DIESEL
EPA	12/04/91	1135	NR	ARLINGTON	T	150	G	75	G	STORM SE	PP-OIL: DIESEL
EPA	02/20/92	1728	NR	FAUQUIER	D	0	U	0	U	BOWENS R	PP-OIL: DIESEL
EPA	03/27/92	1053	VR	FREDERICK	H/V	12	G	0	N		PP-OIL: DIESEL
EPA	04/21/92	1530	VR	AUGUSTA	FC	2	G	2	G	SOUTH RIV	PP-OIL: DIESEL
EPA	07/10/92	0	VR	FREDERICK	T	0	U	0	U	STORM DR	PP-OIL: DIESEL
EPA	08/05/92	1550	NR	FAIRFAX	FC	0	U	0	U		PP-OIL: DIESEL
EPA	08/13/92	1315	NR	KING GEOR	D	0.25	G	0.12	G	UPPER MAC	PP-OIL: DIESEL
EPA	08/17/92	1602	NR	FAIRFAX	H/V	75	G	0	N		PP-OIL: DIESEL

EPA	09/22/92	2100	NR	PRINCE WIL	T	300	G	0	N		PP-OIL: DIESEL
EPA	09/25/92	800	VR	WARREN	FC	0	U	0	U		PP-OIL: DIESEL
EPA	07/03/90	2355	NR	FAUQUIER	FC	75	G	0		NONE	PP-OIL: DIESEL,4.35G PP-G
EPA	03/09/92	700	NR	FAIRFAX	FC	0	U	0	U		PP-OIL:OTHER
EPA	04/04/92	115	NR	FAIRFAX	FC	100	G	0	U	NONE	PP-OILS,PP-FUEL, PP-FUEL
EPA	07/14/88	1230	NR	FAIRFAX	FC	100	G	0		NONE	PP-OILS,PP-FUEL:NO.1 KER
EPA	08/13/89	924	NR	FAUQUIER	U	400	G	0		WARRINGT	PP-OILY MILKY LIQUID
EPA	10/31/91	1000	NR	FAIRFAX	T	15	G	0		NONE	PP-OILY WATER
DEQ	01/05/88		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	01/20/88		VR	HARRISONB	FC						PP-PETROLEUM
DEQ	01/21/88		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	01/28/88		VR	WARREN	U						PP-PETROLEUM
DEQ	02/12/88		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	02/12/88		VR	FREDERICK	FC					GW	PP-PETROLEUM
DEQ	02/16/88		NR	FAIRFAX	U					GW	PP-PETROLEUM
DEQ	02/18/88		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	02/23/88		VR	WAYNESBO	FC					GW	PP-PETROLEUM
DEQ	02/26/88		VR	WINCHESTE	FC					GW	PP-PETROLEUM
DEQ	02/29/88		NR	MANASSAS	FC					GW	PP-PETROLEUM
DEQ	03/03/88		NR	FAIRFAX	U					GW	PP-PETROLEUM
DEQ	03/09/88		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/10/88		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	03/11/88		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	03/14/88		NR	FAIRFAX	FC					Sugarland R	PP-PETROLEUM
DEQ	03/17/88		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	04/01/88		NR	MANASSAS	T					GW	PP-PETROLEUM
DEQ	04/25/88		VR	HIGHLAND	FC						PP-PETROLEUM
DEQ	04/28/88		VR	STAUNTON	FC					Lewis Cr./G	PP-PETROLEUM
DEQ	04/28/88		NR	STAFFORD	P						PP-PETROLEUM
DEQ	05/06/88		NR	FAIRFAX	FC			0			PP-PETROLEUM
DEQ	05/11/88		NR	ALEXANDRI	P					GW	PP-PETROLEUM
DEQ	05/16/88		NR	LOUDOUN	FC					x-trib S. Fork	PP-PETROLEUM
DEQ	05/20/88		NR	LOUDOUN	D					Sycolin Cr.	PP-PETROLEUM
DEQ	05/20/88		NR	FAIRFAX	FC					Folley Lick B	PP-PETROLEUM
DEQ	05/24/88		NR	FAIRFAX	U					Middle Run	PP-PETROLEUM
DEQ	05/24/88		VR	AUGUSTA	DUST			0			PP-PETROLEUM
DEQ	06/08/88		NR	LOUDOUN	FC			0			PP-PETROLEUM
DEQ	06/13/88		NR	FAIRFAX	U					GW	PP-PETROLEUM
DEQ	06/14/88		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	06/14/88		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	06/23/88		NR	FAIRFAX	P						PP-PETROLEUM
DEQ	06/23/88		VR	FREDERICK	D					Abrams Cr.	PP-PETROLEUM
DEQ	06/23/88		NR	FAUQUIER	U						PP-PETROLEUM
DEQ	06/28/88		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	06/29/88		NR	STAFFORD	FC					GW	PP-PETROLEUM
DEQ	06/30/88		VR	ROCKINGHA	DUST			0			PP-PETROLEUM
DEQ	07/08/88		VR	SHENANDO	FC						PP-PETROLEUM
DEQ	07/08/88		VR	STAUNTON	FC					x-trib	PP-PETROLEUM
DEQ	07/26/88		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	07/28/88		NR	PRINCE WIL	U					GW	PP-PETROLEUM
DEQ	08/02/88		NR	STAFFORD	P					GW	PP-PETROLEUM
DEQ	08/11/88		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	08/12/88		VR	PAGE	FC					GW	PP-PETROLEUM
DEQ	08/15/88		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	08/17/88		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	08/19/88		NR	FAIRFAX	T						PP-PETROLEUM

DEQ	08/30/88		NR	FAIRFAX	D					Cub Run	PP-PETROLEUM
DEQ	08/30/88		NR	FAIRFAX	U					Lake Sequoi	PP-PETROLEUM
DEQ	08/31/88		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	09/09/88		NR	FAUQUIER	FC			0		S. Fork Goos	PP-PETROLEUM
DEQ	09/13/88		VR	AUGUSTA	FC					South R./GW	PP-PETROLEUM
DEQ	09/13/88		NR	PRINCE WIL	U					x-trib Occoqu	PP-PETROLEUM
DEQ	09/13/88		NR	PRINCE WIL	P					GW	PP-PETROLEUM
DEQ	09/19/88		NR	FAUQUIER	FC					GW	PP-PETROLEUM
DEQ	09/23/88		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	09/23/88		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	09/27/88		VR	HARRISONB	FC						PP-PETROLEUM
DEQ	09/28/88		VR	AUGUSTA	T						PP-PETROLEUM
DEQ	09/29/88		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	09/30/88		VR	WINCHESTE	FC					GW	PP-PETROLEUM
DEQ	09/30/88		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	09/30/88		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	10/03/88		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	10/04/88		NR	ALEXANDRI	D					Cameron Ru	PP-PETROLEUM
DEQ	10/07/88		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	10/07/88		NR	FALLS CHU	FC					GW	PP-PETROLEUM
DEQ	10/17/88		NR	FAUQUIER	FC						PP-PETROLEUM
DEQ	10/18/88		VR	CLARKE	FC					GW	PP-PETROLEUM
DEQ	10/25/88		NR	FAIRFAX	FC					Tripps Run	PP-PETROLEUM
DEQ	10/25/88		NR	PRINCE WIL	D						PP-PETROLEUM
DEQ	10/26/88		NR	FAUQUIER	D						PP-PETROLEUM
DEQ	10/28/88		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	11/01/88		NR	STAFFORD	FC					GW	PP-PETROLEUM
DEQ	11/02/88		VR	WINCHESTE	FC						PP-PETROLEUM
DEQ	11/03/88		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	11/03/88		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/04/88		NR	LOUDOUN	T						PP-PETROLEUM
DEQ	11/04/88		NR	LOUDOUN	H/C					x-trib	PP-PETROLEUM
DEQ	11/10/88		NR	FAIRFAX	D					x-trib	PP-PETROLEUM
DEQ	11/10/88		NR	FALLS CHU	FC					GW	PP-PETROLEUM
DEQ	11/10/88		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	11/17/88		NR	LOUDOUN	D						PP-PETROLEUM
DEQ	11/22/88		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	11/23/88		VR	WARREN	FC					GW	PP-PETROLEUM
DEQ	11/30/88		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	11/30/88		NR	MANASSAS	FC						PP-PETROLEUM
DEQ	12/05/88		NR	ARLINGTON	D					x-trib Tripps	PP-PETROLEUM
DEQ	12/15/88		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	12/15/88		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	12/16/88		VR	FREDERICK	P					GW	PP-PETROLEUM
DEQ	12/22/88		NR	FALLS CHU	FC					GW	PP-PETROLEUM
DEQ	12/22/88		NR	FAIRFAX	FC					x-trib	PP-PETROLEUM
DEQ	01/04/89		NR	FAIRFAX	D						PP-PETROLEUM
DEQ	01/05/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	01/05/89		NR	STAFFORD	FC					GW	PP-PETROLEUM
DEQ	01/06/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	01/09/89		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	01/10/89		NR	ARLINGTON	U					Roaches Run	PP-PETROLEUM
DEQ	01/10/89		VR	SHENANDO	D						PP-PETROLEUM
DEQ	01/12/89		NR	FAIRFAX	T			0			PP-PETROLEUM
DEQ	01/18/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	01/18/89		VR	AUGUSTA	P			0			PP-PETROLEUM

DEQ	01/19/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	01/20/89		NR	ALEXANDRI	P						PP-PETROLEUM
DEQ	01/23/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	01/25/89		TW	NORTHUMB	FC					GW	PP-PETROLEUM
DEQ	02/02/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	02/03/89		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	02/06/89		VR	HARRISONB	T					Blacks Run	PP-PETROLEUM
DEQ	02/07/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	02/13/89		NR	ALEXANDRI	FC					retention pon	PP-PETROLEUM
DEQ	02/15/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/16/89		NR	ARLINGTON	U					Long Br.	PP-PETROLEUM
DEQ	02/17/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	02/22/89		NR	FAUQUIER	FC					GW	PP-PETROLEUM
DEQ	02/22/89		VR	HARRISONB	FC					Blacks Run	PP-PETROLEUM
DEQ	02/28/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	03/04/89		NR	FAUQUIER	FC			0			PP-PETROLEUM
DEQ	03/10/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	03/10/89		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	03/13/89		VR	SHENANDO	FC					Toms Brook	PP-PETROLEUM
DEQ	03/14/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	03/15/89		NR	ARLINGTON	T					Lubber Run	PP-PETROLEUM
DEQ	03/17/89		NR	LOUDOUN	U					x-trib	PP-PETROLEUM
DEQ	03/20/89		NR	FALLS CHU	FC						PP-PETROLEUM
DEQ	03/24/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	03/24/89		NR	LOUDOUN	D					x-trib Sandy	PP-PETROLEUM
DEQ	03/29/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	03/30/89		NR	FAUQUIER	T						PP-PETROLEUM
DEQ	03/30/89		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	04/04/89		NR	PRINCE WIL	U					GW	PP-PETROLEUM
DEQ	04/04/89		NR	FAIRFAX	P						PP-PETROLEUM
DEQ	04/05/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	04/05/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	04/07/89		NR	FAUQUIER	FC					GW	PP-PETROLEUM
DEQ	04/07/89		NR	FAIRFAX	T					GW	PP-PETROLEUM
DEQ	04/14/89		NR	FAIRFAX	U					x-trib	PP-PETROLEUM
DEQ	04/14/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	04/16/89		NR	PRINCE WIL	FC					Occoquan R.	PP-PETROLEUM
DEQ	04/18/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	04/20/89		VR	STAUNTON	FC					GW	PP-PETROLEUM
DEQ	04/21/89		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	04/21/89		VR	ROCKINGHA	FC					x-trib/GW	PP-PETROLEUM
DEQ	04/25/89		VR	PAGE	FC						PP-PETROLEUM
DEQ	04/27/89		NR	MANASSAS	FC					GW	PP-PETROLEUM
DEQ	04/27/89		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	04/27/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	05/03/89		VR	AUGUSTA	D					x-trib	PP-PETROLEUM
DEQ	05/04/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	05/04/89		NR	PRINCE WIL	FC			0			PP-PETROLEUM
DEQ	05/08/89		VR	ROCKINGHA	FC					GW	PP-PETROLEUM
DEQ	05/10/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	05/11/89		NR	LOUDOUN	T					GW	PP-PETROLEUM
DEQ	05/12/89		VR	AUGUSTA	FC					x-trib Broad	PP-PETROLEUM
DEQ	05/12/89		NR	ARLINGTON	D					x-trib	PP-PETROLEUM
DEQ	05/15/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	05/16/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	05/18/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM

DEQ	05/19/89		NR	ARLINGTON	D					Lubber Runa	PP-PETROLEUM
DEQ	05/19/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	05/26/89		NR	PRINCE WIL	T					x-trib Bull Ru	PP-PETROLEUM
DEQ	05/26/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	05/30/89		NR	ALEXANDRI	P					GW	PP-PETROLEUM
DEQ	05/30/89		NR	FAIRFAX	P						PP-PETROLEUM
DEQ	05/31/89		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	06/03/89		NR	LOUDOUN	FC					private lake/	PP-PETROLEUM
DEQ	06/05/89		NR	STAFFORD	FC					x-trib	PP-PETROLEUM
DEQ	06/06/89		VR	ROCKINGHA	FC					GW	PP-PETROLEUM
DEQ	06/06/89		NR	LOUDOUN	T					Dry Mill Br.	PP-PETROLEUM
DEQ	06/07/89		VR	ROCKINGHA	FC					Blacks Run	PP-PETROLEUM
DEQ	06/08/89		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	06/09/89		VR	AUGUSTA	U					GW	PP-PETROLEUM
DEQ	06/09/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	06/13/89		VR	STAUNTON	FC					GW	PP-PETROLEUM
DEQ	06/14/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	06/14/89		NR	FAUQUIER	U					S.F. Goose	PP-PETROLEUM
DEQ	06/14/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	06/19/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	06/20/89		NR	FAIRFAX	T					Crooks Br.	PP-PETROLEUM
DEQ	06/21/89		VR	AUGUSTA	U						PP-PETROLEUM
DEQ	06/22/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	06/22/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	06/23/89		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	06/26/89		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	06/27/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	06/27/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/29/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	06/30/89		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	07/01/89		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	07/05/89		VR	SHENANDO	T						PP-PETROLEUM
DEQ	07/07/89		NR	LOUDOUN	T					Cub Run	PP-PETROLEUM
DEQ	07/09/89		VR	STAUNTON	P					GW	PP-PETROLEUM
DEQ	07/12/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	07/18/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	07/18/89		NR	FALLS CHU	FC						PP-PETROLEUM
DEQ	07/19/89		TW	WESTMORE	FC					Potomac R./	PP-PETROLEUM
DEQ	07/26/89		NR	FAUQUIER	FC					GW	PP-PETROLEUM
DEQ	08/01/89		VR	ROCKINGHA	FC					GW	PP-PETROLEUM
DEQ	08/01/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	08/02/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	08/03/89		NR	ARLINGTON	D						PP-PETROLEUM
DEQ	08/04/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	08/07/89		NR	MANASSAS	T					GW	PP-PETROLEUM
DEQ	08/07/89		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	08/07/89		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	08/11/89		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	08/15/89		NR	LOUDOUN	D					x-trib Cub Ru	PP-PETROLEUM
DEQ	08/16/89		VR	FREDERICK	U						PP-PETROLEUM
DEQ	08/18/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	08/18/89		VR	HARRISONB	FC						PP-PETROLEUM
DEQ	08/22/89		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	08/25/89		TW	NORTHUMB	FC					GW	PP-PETROLEUM
DEQ	08/31/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	09/01/89		NR	ALEXANDRI	FC						PP-PETROLEUM

DEQ	09/06/89		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	09/07/89		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	09/11/89		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	09/11/89		NR	FAUQUIER	FC					GW	PP-PETROLEUM
DEQ	09/11/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	09/14/89		NR	ARLINGTON	D					x-trib Four Mi	PP-PETROLEUM
DEQ	09/19/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	09/19/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	09/19/89		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	09/19/89		VR	WAYNESBO	FC					GW	PP-PETROLEUM
DEQ	09/20/89		NR	FAUQUIER	FC						PP-PETROLEUM
DEQ	09/22/89		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	09/22/89		VR	HARRISONB	FC					GW	PP-PETROLEUM
DEQ	09/25/89		NR	FAUQUIER	FC					GW	PP-PETROLEUM
DEQ	09/26/89		VR	HARRISONB	FC					Blacks Run	PP-PETROLEUM
DEQ	09/26/89		VR	HARRISONB	FC					GW	PP-PETROLEUM
DEQ	09/28/89		VR	HARRISONB	FC					GW	PP-PETROLEUM
DEQ	09/28/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	09/29/89		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	10/02/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	10/02/89		VR	SHENANDO	FC						PP-PETROLEUM
DEQ	10/02/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	10/10/89		NR	PRINCE WIL	FC					Bull Run	PP-PETROLEUM
DEQ	10/10/89		NR	ARLINGTON	FC			0			PP-PETROLEUM
DEQ	10/10/89		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	10/13/89		NR	KING GEOR	U						PP-PETROLEUM
DEQ	10/13/89		NR	FAIRFAX	D					GW	PP-PETROLEUM
DEQ	10/13/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	10/13/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	10/16/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	10/17/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	10/19/89		VR	WARREN	FC					GW	PP-PETROLEUM
DEQ	10/20/89		NR	FALLS CHU	FC					GW	PP-PETROLEUM
DEQ	10/23/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	10/23/89		VR	WARREN	U					GW	PP-PETROLEUM
DEQ	10/24/89		VR	SHENANDO	H/C			0			PP-PETROLEUM
DEQ	10/25/89		NR	STAFFORD	D					GW Potoma	PP-PETROLEUM
DEQ	10/26/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	10/31/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	11/01/89		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	11/06/89		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	11/07/89		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	11/07/89		VR	CLARKE	FC					GW	PP-PETROLEUM
DEQ	11/14/89		VR	PAGE	FC					GW	PP-PETROLEUM
DEQ	11/15/89		VR	FREDERICK	FC					GW	PP-PETROLEUM
DEQ	11/20/89		NR	STAFFORD	FC						PP-PETROLEUM
DEQ	11/21/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	11/22/89		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	11/27/89		VR	AUGUSTA	T					GW	PP-PETROLEUM
DEQ	11/27/89		VR	SHENANDO	FC						PP-PETROLEUM
DEQ	11/29/89		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	11/30/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	12/04/89		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	12/04/89		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	12/04/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	12/05/89		VR	AUGUSTA	FC						PP-PETROLEUM

DEQ	12/06/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	12/07/89		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	12/07/89		VR	SHENANDO	FC						PP-PETROLEUM
DEQ	12/07/89		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	12/11/89		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	12/11/89		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	12/14/89		NR	MANASSAS	FC						PP-PETROLEUM
DEQ	12/14/89		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	12/15/89		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	12/15/89		VR	PAGE	FC					GW	PP-PETROLEUM
DEQ	12/19/89		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	12/20/89		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	12/20/89		NR	FAIRFAX	FC						PP-PETROLEUM
DES	12/20/89	1735	NR	ALEXANDRI	M			Y		POTOMAC	PP-PETROLEUM
DEQ	12/21/89		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	12/26/89		NR	ARLINGTON	U					Roaches Run	PP-PETROLEUM
DEQ	12/28/89		NR	PRINCE WIL	U					x-trib	PP-PETROLEUM
DEQ	01/02/90		NR	FAIRFAX	P						PP-PETROLEUM
DEQ	01/03/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/03/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	01/05/90		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	01/08/90		VR	AUGUSTA	U					GW	PP-PETROLEUM
DEQ	01/08/90		NR	FAUQUIER	FC						PP-PETROLEUM
DEQ	01/08/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/08/90		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	01/11/90		VR	PAGE	FC						PP-PETROLEUM
DEQ	01/16/90		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	01/19/90		VR	HARRISONB	FC			0			PP-PETROLEUM
DEQ	01/22/90		VR	STAUNTON	D					storm drain L	PP-PETROLEUM
DEQ	01/23/90		NR	STAFFORD	FC						PP-PETROLEUM
DEQ	01/24/90		NR	FAIRFAX	U						PP-PETROLEUM
DEQ	01/24/90		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	01/24/90		NR	MANASSAS	FC						PP-PETROLEUM
DEQ	01/25/90		NR	ARLINGTON	U						PP-PETROLEUM
DEQ	01/25/90		NR	ALEXANDRI	U						PP-PETROLEUM
DEQ	01/25/90		NR	FAIRFAX	P						PP-PETROLEUM
DEQ	01/29/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	01/29/90		VR	SHENANDO	P					x-trib Spring	PP-PETROLEUM
DEQ	01/30/90		VR	WINCHESTE	U					GW	PP-PETROLEUM
DEQ	01/31/90		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	01/31/90		VR	HARRISONB	FC						PP-PETROLEUM
DEQ	01/31/90		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	01/31/90		VR	AUGUSTA	D			0			PP-PETROLEUM
DEQ	01/31/90		NR	FAUQUIER	FC					GW	PP-PETROLEUM
DEQ	02/01/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	02/02/90		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	02/05/90		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	02/05/90		NR	FAIRFAX	D					Flagg Run	PP-PETROLEUM
DEQ	02/05/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/06/90		NR	FAIRFAX	U					Accotink Cr.	PP-PETROLEUM
DEQ	02/06/90		NR	STAFFORD	FC						PP-PETROLEUM
DEQ	02/07/90		VR	SHENANDO	FC					GW	PP-PETROLEUM
DEQ	02/09/90		VR	FREDERICK	FC						PP-PETROLEUM
DEQ	02/09/90		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	02/12/90		VR	HARRISONB	FC					GW	PP-PETROLEUM
DEQ	02/12/90		NR	ARLINGTON	FC						PP-PETROLEUM

DEQ	02/12/90		VR	SHENANDO	U					N. F. Shenan	PP-PETROLEUM
DEQ	02/14/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	02/14/90		VR	ROCKINGHA	FC					GW	PP-PETROLEUM
DEQ	02/14/90		NR	FAUQUIER	T						PP-PETROLEUM
DEQ	02/15/90		NR	MANASSAS	FC					GW	PP-PETROLEUM
DEQ	02/16/90		VR	CLARKE	FC					GW	PP-PETROLEUM
DEQ	02/20/90		VR	STAUNTON	FC					Lewis Cr.	PP-PETROLEUM
DEQ	02/20/90		VR	ROCKINGHA	FC					sink hole	PP-PETROLEUM
DEQ	02/22/90		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	02/22/90		NR	PRINCE WIL	U					GW	PP-PETROLEUM
DEQ	02/23/90		NR	FAIRFAX	T						PP-PETROLEUM
DEQ	02/26/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	02/26/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/26/90		NR	STAFFORD	FC					GW	PP-PETROLEUM
DEQ	02/26/90		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	02/27/90		NR	MANASSAS	D					drain	PP-PETROLEUM
DEQ	02/27/90		NR	LOUDOUN	U					swail Cub Ru	PP-PETROLEUM
DEQ	02/27/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	02/27/90		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	02/28/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	03/01/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	03/02/90		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	03/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/02/90		NR	PRINCE WIL	D					x-trib Cows B	PP-PETROLEUM
DEQ	03/02/90		VR	WINCHESTE	FC						PP-PETROLEUM
DEQ	03/02/90		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	03/05/90		NR	PRINCE WIL	T						PP-PETROLEUM
DEQ	03/06/90		NR	LOUDOUN	H/V						PP-PETROLEUM
DEQ	03/09/90		NR	PRINCE WIL	T						PP-PETROLEUM
DEQ	03/09/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	03/19/90		TW	WESTMORE	D						PP-PETROLEUM
DEQ	03/20/90		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	03/20/90		VR	FREDERICK	FC					x-trib	PP-PETROLEUM
DEQ	03/21/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	03/27/90		NR	FAIRFAX	U					x-trib	PP-PETROLEUM
DEQ	03/27/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	03/30/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/30/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	04/03/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	04/03/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	04/04/90		NR	FAIRFAX	T						PP-PETROLEUM
DEQ	04/04/90		NR	FAIRFAX	FC			0			PP-PETROLEUM
DEQ	04/04/90		NR	LOUDOUN	U					GW	PP-PETROLEUM
DEQ	04/04/90		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	04/04/90		VR	WINCHESTE	FC						PP-PETROLEUM
DEQ	04/05/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	04/06/90		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	04/06/90		NR	PRINCE WIL	FC					x-trib	PP-PETROLEUM
DEQ	04/06/90		VR	PAGE	T						PP-PETROLEUM
DEQ	04/07/90		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	04/10/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	04/11/90		VR	HARRISONB	FC					Blacks Run	PP-PETROLEUM
DEQ	04/13/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	04/16/90		VR	HARRISONB	T						PP-PETROLEUM
DEQ	04/17/90		NR	PRINCE WIL	FC						PP-PETROLEUM

DEQ	06/19/90		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	06/21/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/22/90		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	06/22/90		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	06/25/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	06/25/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	06/28/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/28/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/28/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	06/28/90		NR	STAFFORD	D					storm drain	PP-PETROLEUM
DEQ	07/03/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	07/03/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	07/05/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	07/05/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	07/09/90		NR	PRINCE WIL	T			0		GW	PP-PETROLEUM
DEQ	07/11/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	07/16/90		NR	FAIRFAX	T						PP-PETROLEUM
DEQ	07/17/90		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	07/18/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	07/19/90		NR	PRINCE WIL	FC					sanitary sew	PP-PETROLEUM
DEQ	07/19/90		NR	FAIRFAX	D						PP-PETROLEUM
DEQ	07/23/90		NR	FAIRFAX	P					GW	PP-PETROLEUM
DEQ	07/24/90		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	07/30/90		VR	AUGUSTA	DUST CONTROL						PP-PETROLEUM
DEQ	08/01/90		NR	LOUDOUN	D					GW	PP-PETROLEUM
DEQ	08/06/90		VR	CLARKE	U					GW	PP-PETROLEUM
DEQ	08/07/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	08/07/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	08/08/90		NR	LOUDOUN	T						PP-PETROLEUM
DEQ	08/08/90		VR	AUGUSTA	FC					GW	PP-PETROLEUM
DEQ	08/09/90		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	08/13/90		NR	ALEXANDRI	D						PP-PETROLEUM
DEQ	08/15/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	08/16/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	08/16/90		NR	PRINCE WIL	D					Cows Branch	PP-PETROLEUM
DEQ	08/22/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	08/23/90		NR	FAIRFAX	U					x-trib	PP-PETROLEUM
DEQ	08/29/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	09/10/90		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	09/10/90		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	09/11/90		NR	ALEXANDRI	T						PP-PETROLEUM
DEQ	09/24/90		VR	AUGUSTA	U					x-trib South	PP-PETROLEUM
DEQ	09/26/90		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	10/02/90		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	10/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	10/03/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	10/04/90		NR	LOUDOUN	D					GW	PP-PETROLEUM
DEQ	10/08/90		NR	FAIRFAX	P						PP-PETROLEUM
DEQ	10/10/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	10/11/90		VR	HARRISONB	FC						PP-PETROLEUM
DEQ	10/16/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	10/17/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	10/19/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	10/24/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	10/24/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	10/24/90		NR	ALEXANDRI	FC						PP-PETROLEUM

DEQ	04/20/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	04/20/90		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	04/23/90		NR	PRINCE WIL	T						PP-PETROLEUM
DEQ	04/23/90		NR	STAFFORD	FC						PP-PETROLEUM
DEQ	04/25/90		VR	PAGE	FC						PP-PETROLEUM
DEQ	04/26/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	04/27/90		NR	PRINCE WIL	D					GW	PP-PETROLEUM
DEQ	04/27/90		VR	HARRISONB	T					GW	PP-PETROLEUM
DEQ	04/30/90		VR	CLARKE	FC						PP-PETROLEUM
DEQ	05/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/02/90		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	05/02/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	05/02/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	05/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/02/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	05/02/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	05/03/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/04/90		VR	ROCKINGHA	P						PP-PETROLEUM
DEQ	05/04/90		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	05/07/90		NR	MANASSAS	FC						PP-PETROLEUM
DEQ	05/10/90		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	05/11/90		VR	STAUNTON	U						PP-PETROLEUM
DEQ	05/11/90		VR	FREDERICK	T					Abrams Cr.	PP-PETROLEUM
DEQ	05/11/90		VR	STAUNTON	FC						PP-PETROLEUM
DEQ	05/11/90		NR	LOUDOUN	FC					GW	PP-PETROLEUM
DEQ	05/15/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	05/15/90		NR	ALEXANDRI	P						PP-PETROLEUM
DEQ	05/15/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/18/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	05/18/90		NR	STAFFORD	FC						PP-PETROLEUM
DEQ	05/21/90		VR	FREDERICK	U						PP-PETROLEUM
DEQ	05/23/90		NR	ARLINGTON	FC					GW	PP-PETROLEUM
DEQ	05/23/90		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	05/24/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	05/25/90		NR	ARLINGTON	D					Four Mile Ru	PP-PETROLEUM
DEQ	05/25/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/25/90		NR	PRINCE WIL	D						PP-PETROLEUM
DEQ	05/29/90		VR	ROCKINGHA	FC					GW	PP-PETROLEUM
DEQ	05/30/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/31/90		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	05/31/90		TW	WESTMORE	FC						PP-PETROLEUM
DEQ	06/04/90		VR	AUGUSTA	D					storm drain	PP-PETROLEUM
DEQ	06/04/90		VR	WINCHESTE	U					GW	PP-PETROLEUM
DEQ	06/06/90		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	06/06/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	06/06/90		NR	STAFFORD	FC					GW	PP-PETROLEUM
DEQ	06/06/90		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	06/07/90		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	06/11/90		VR	ROCKINGHA	FC					GW	PP-PETROLEUM
DEQ	06/12/90		NR	ARLINGTON	D						PP-PETROLEUM
DEQ	06/13/90		NR	PRINCE WIL	U						PP-PETROLEUM
DEQ	06/13/90		NR	FAIRFAX	T						PP-PETROLEUM
DEQ	06/13/90		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	06/14/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	06/18/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/18/90		NR	PRINCE WIL	D					storm drain	PP-PETROLEUM

DEQ	10/25/90		VR	AUGUSTA	U					GW	PP-PETROLEUM
DEQ	10/26/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	10/26/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/02/90		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	11/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/02/90		NR	FAIRFAX	FC						PP-PETROLEUM
DES	11/03/90	1225	NR	FAIRFAX	FC			1		CREEK	PP-PETROLEUM
DEQ	11/08/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/13/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/15/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	11/15/90		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	11/15/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/15/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/20/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	11/28/90		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	11/28/90		NR	ALEXANDRI	FC					Backlick Run	PP-PETROLEUM
DEQ	11/28/90		NR	FAIRFAX	D					storm sewer	PP-PETROLEUM
DEQ	11/28/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	12/05/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	12/05/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	12/06/90		VR	ROCKINGHA	U					GW	PP-PETROLEUM
DEQ	12/07/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	12/07/90		VR	CLARKE	FC						PP-PETROLEUM
DEQ	12/07/90		NR	PRINCE WIL	P					GW	PP-PETROLEUM
DEQ	12/11/90		NR	FAIRFAX	T					GW	PP-PETROLEUM
DEQ	12/11/90		VR	AUGUSTA	P					GW	PP-PETROLEUM
DEQ	12/12/90		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	12/12/90		NR	KING GEOR	U					GW	PP-PETROLEUM
DEQ	12/13/90		NR	KING GEOR	FC						PP-PETROLEUM
DEQ	12/13/90		VR	ROCKINGHA	D					North R.	PP-PETROLEUM
DEQ	12/14/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	12/17/90		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	12/17/90		NR	FAIRFAX	U					Long Br.	PP-PETROLEUM
DES	12/18/90	2253	NR	STAFFORD	M			1		CREEK	PP-PETROLEUM
DEQ	12/18/90		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	12/19/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	12/19/90		NR	LOUDOUN	U						PP-PETROLEUM
DEQ	12/20/90		NR	FAIRFAX	T						PP-PETROLEUM
DEQ	12/20/90		NR	FAIRFAX	T						PP-PETROLEUM
DEQ	12/20/90		VR	CLARKE	FC						PP-PETROLEUM
DEQ	12/21/90		NR	FAIRFAX	P						PP-PETROLEUM
DEQ	12/21/90		NR	ALEXANDRI	H/V					GW	PP-PETROLEUM
DEQ	12/21/90		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	12/21/90		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	12/26/90		NR	PRINCE WIL	FC					GW	PP-PETROLEUM
DEQ	01/03/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/03/91		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	01/03/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/07/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/07/91		NR	FAUQUIER	FC						PP-PETROLEUM
DEQ	01/07/91		NR	FAIRFAX	P						PP-PETROLEUM
DEQ	01/08/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/08/91		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	01/10/91		NR	LOUDOUN	FC						PP-PETROLEUM

DEQ	01/11/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/11/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	01/11/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/11/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/11/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	01/11/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/11/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	01/14/91		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	01/15/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/16/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/16/91		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	01/16/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/16/91		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	01/17/91		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	01/23/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/25/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	01/28/91		NR	FAIRFAX	FC					Sugarland R	PP-PETROLEUM
DEQ	01/30/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	01/30/91		NR	FAIRFAX	U					GW	PP-PETROLEUM
DEQ	02/05/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/06/91		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	02/11/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/11/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/11/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/12/91		NR	FAIRFAX	T					Long Br.	PP-PETROLEUM
DEQ	02/13/91		VR	ROCKINGHA	D						PP-PETROLEUM
DEQ	02/15/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/19/91		NR	PRINCE WIL	P						PP-PETROLEUM
DEQ	02/22/91		VR	HARRISONB	FC						PP-PETROLEUM
DEQ	02/22/91		VR	HARRISONB	FC						PP-PETROLEUM
DEQ	02/22/91		VR	AUGUSTA	T					GW	PP-PETROLEUM
DEQ	02/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/26/91		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	02/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/27/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	02/28/91		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	03/01/91		NR	FAIRFAX	U					Flat Lick Run	PP-PETROLEUM
DEQ	03/01/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	03/01/91		NR	FAIRFAX	U					GW	PP-PETROLEUM
DEQ	03/04/91		NR	FAIRFAX	T						PP-PETROLEUM
DEQ	03/06/91		NR	LOUDOUN	U					GW	PP-PETROLEUM
DEQ	03/06/91		NR	ALEXANDRI	FC					Four Mile Ru	PP-PETROLEUM
DEQ	03/11/91		NR	FAIRFAX	P					x-trib	PP-PETROLEUM
DEQ	03/11/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/12/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/15/91		VR	ROCKINGHA	D					x-trib Boones	PP-PETROLEUM
DEQ	03/15/91		VR	AUGUSTA	D					x-trib Little C	PP-PETROLEUM
DEQ	03/21/91		NR	ALEXANDRI	U						PP-PETROLEUM
DEQ	03/21/91		NR	FAIRFAX	FC					GW	PP-PETROLEUM
DEQ	03/25/91		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM

DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/26/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	03/27/91		NR	ARLINGTON	FC						PP-PETROLEUM
DEQ	04/02/91		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	04/02/91		VR	ROCKINGHA	DUST						PP-PETROLEUM
DEQ	04/04/91		NR	ALEXANDRI	FC					GW	PP-PETROLEUM
DEQ	04/04/91		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	04/08/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	04/09/91		VR	CLARKE	T						PP-PETROLEUM
DEQ	04/09/91		VR	ROCKINGHA	U					GW	PP-PETROLEUM
DEQ	04/10/91		NR	FAUQUIER	D					x-trib Goose	PP-PETROLEUM
DEQ	04/11/91		NR	FALLS CHU	U					Holmes Run	PP-PETROLEUM
DEQ	04/12/91		NR	FAIRFAX	D					storm drain	PP-PETROLEUM
DEQ	04/12/91		VR	CLARKE	FC						PP-PETROLEUM
DEQ	04/16/91		NR	FAIRFAX	DUST CONTROL						PP-PETROLEUM
DEQ	04/16/91		NR	ALEXANDRI	D					x-trib Dyke M	PP-PETROLEUM
DEQ	04/19/91		NR	FAUQUIER	FC						PP-PETROLEUM
DEQ	04/19/91		VR	ROCKINGHA	DUST CONTROL						PP-PETROLEUM
DEQ	04/19/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	04/23/91		VR	AUGUSTA	D					x-trib South	PP-PETROLEUM
DEQ	04/23/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	04/25/91		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	04/26/91		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	04/29/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/02/91		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/06/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/07/91		VR	CLARKE	FC					GW	PP-PETROLEUM
DEQ	05/10/91		NR	FAIRFAX	U					x-trib Accotin	PP-PETROLEUM
DEQ	05/10/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/10/91		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	05/10/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	05/14/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	05/28/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	05/30/91		VR	ROCKINGHA	T						PP-PETROLEUM
DEQ	06/06/91		NR	ALEXANDRI	FC						PP-PETROLEUM

DEQ	06/07/91		VR	CLARKE	FC						PP-PETROLEUM
DEQ	06/07/91		NR	KING GEOR	D						PP-PETROLEUM
DEQ	06/12/91		TW	WESTMORE	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/14/91		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/14/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/20/91		VR	CLARKE	FC						PP-PETROLEUM
DEQ	06/26/91		NR	LOUDOUN	FC						PP-PETROLEUM
DES	06/26/91	1245	NR	LOUDOUN	FC					N	PP-PETROLEUM
DEQ	06/27/91		NR	FAIRFAX	FC						PP-PETROLEUM
DEQ	06/27/91		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	06/27/91		NR	FAIRFAX	FC					Middle Run	PP-PETROLEUM
DEQ	06/27/91		NR	LOUDOUN	FC						PP-PETROLEUM
DEQ	06/27/91		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	07/10/91		NR	FALLS CHU	FC					x-trib Fourmil	PP-PETROLEUM
DEQ	07/10/91		NR	STAFFORD	D						PP-PETROLEUM
DEQ	07/15/91		NR	FAIRFAX	D						PP-PETROLEUM
DEQ	07/19/91		NR	FAIRFAX	D					storm drain	PP-PETROLEUM
DEQ	07/22/91		NR	STAFFORD	FC						PP-PETROLEUM
DEQ	07/23/91		NR	FAIRFAX	H/C					Giles Run	PP-PETROLEUM
DEQ	07/25/91		NR	FAUQUIER	D						PP-PETROLEUM
DEQ	07/30/91		VR	SHENANDO	D						PP-PETROLEUM
DEQ	08/01/91		NR	ALEXANDRI	H/V						PP-PETROLEUM
DEQ	08/01/91		VR	FREDERICK	DUST CONTROL						PP-PETROLEUM
DEQ	08/09/91		VR	CLARKE	DUST CONRTOL						PP-PETROLEUM
DEQ	08/14/91		VR	WARREN	D						PP-PETROLEUM
DEQ	08/16/91		VR	ROCKINGHA	DUST CONTROL						PP-PETROLEUM
DEQ	08/23/91		NR	STAFFORD	H/V					Smith Lake	PP-PETROLEUM
DES	08/24/91	1337	VR	FREDERICK	FC	100	G			N	PP-PETROLEUM
DEQ	08/29/91		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	09/05/91		NR	ALEXANDRI	D					storm drain	PP-PETROLEUM
DEQ	09/06/91		NR	STAFFORD	U					pond	PP-PETROLEUM
DEQ	09/17/91		VR	HARRISONB	U					Black's Run	PP-PETROLEUM
DEQ	09/18/91		VR	ROCKINGHA	DUST						PP-PETROLEUM
DEQ	10/04/91		VR	WAYNESBO	FC					South R.	PP-PETROLEUM
DEQ	10/06/91		NR	STAFFORD	FC						PP-PETROLEUM
DEQ	10/08/91		VR	SHENANDO	DUST						PP-PETROLEUM
DEQ	10/31/91		NR	FAUQUIER	D					storm drain	PP-PETROLEUM
DEQ	11/05/91		VR	ROCKINGHA	D						PP-PETROLEUM
DEQ	11/06/91		NR	FAIRFAX	H/V					Giles Run Cr	PP-PETROLEUM
DEQ	11/07/91		TW	WESTMORE	H/V						PP-PETROLEUM
DEQ	11/08/91		NR	FAUQUIER	FC						PP-PETROLEUM
DEQ	11/18/91		VR	WARREN	DUST						PP-PETROLEUM
DEQ	11/22/91		NR	ALEXANDRI	D					storm drain B	PP-PETROLEUM
DEQ	01/07/92		VR	FREDERICK	T						PP-PETROLEUM
DEQ	01/08/92		NR	FAUQUIER	T					GW	PP-PETROLEUM
DEQ	01/27/92		VR	FREDERICK	FC					GW	PP-PETROLEUM
DEQ	02/04/92		VR	WAYNESBO	D					GW	PP-PETROLEUM
DEQ	02/05/92		NR	STAFFORD	H/C					storm drain	PP-PETROLEUM

DEQ	02/10/92		VR	AUGUSTA	FC						PP-PETROLEUM
DEQ	02/14/92		NR	ALEXANDRI	FC						PP-PETROLEUM
DEQ	02/18/92		VR	HARRISONB	D						PP-PETROLEUM
DEQ	02/26/92		NR	STAFFORD	D					x-trib	PP-PETROLEUM
DEQ	02/26/92		TW	WESTMORE	D						PP-PETROLEUM
DEQ	02/26/92		VR	STAUNTON	D			0		pond	PP-PETROLEUM
DEQ	03/25/92		VR	SHENANDO	FC						PP-PETROLEUM
DES	03/26/92	1618	NR	PRINCE WIL	H			N			PP-PETROLEUM
DES	04/03/92	1708	VR	PAGE	M			Y		HAWKSVILL	PP-PETROLEUM
DEQ	04/10/92		VR	SHENANDO	D					x-trib pond	PP-PETROLEUM
DEQ	04/20/92		NR	FAUQUIER	U					GW	PP-PETROLEUM
DEQ	04/22/92		VR	ROCKINGHA	D						PP-PETROLEUM
DEQ	04/24/92		NR	STAFFORD	D						PP-PETROLEUM
DEQ	05/08/92		VR	ROCKINGHA	D					North R.	PP-PETROLEUM
DEQ	05/11/92		VR	HARRISONB	U					Blacks Run	PP-PETROLEUM
DES	05/11/92	0945	VR	ROCKINGHA	M			Y		BLACKS RU	PP-PETROLEUM
DEQ	06/01/92		NR	STAFFORD	D						PP-PETROLEUM
DEQ	06/08/92		NR	FALLS CHU	D					Tripps Run	PP-PETROLEUM
DEQ	06/08/92		NR	FAIRFAX	D					Holmes Run	PP-PETROLEUM
DEQ	06/08/92		NR	FAIRFAX	D						PP-PETROLEUM
DEQ	06/11/92		VR	STAUNTON	H/C						PP-PETROLEUM
DEQ	06/11/92		NR	FAIRFAX	D					x-trib	PP-PETROLEUM
DEQ	06/11/92		NR	ALEXANDRI	U					sewer syste	PP-PETROLEUM
DEQ	06/15/92		VR	ROCKINGHA	DUST CONTROL						PP-PETROLEUM
DEQ	06/17/92		VR	WARREN	DUST					GW	PP-PETROLEUM
DEQ	06/18/92		VR	WARREN	DUST CONTROL						PP-PETROLEUM
DEQ	06/25/92		VR	STAUNTON	P						PP-PETROLEUM
DEQ	07/01/92		NR	FAIRFAX	H/V						PP-PETROLEUM
DEQ	07/22/92		NR	FAIRFAX	T						PP-PETROLEUM
DEQ	07/28/92		NR	PRINCE WIL	D						PP-PETROLEUM
DEQ	08/13/92		NR	FAIRFAX	U					x-trib Accotin	PP-PETROLEUM
DEQ	08/13/92		NR	PRINCE WIL	FC						PP-PETROLEUM
DEQ	08/17/92		VR	ROCKINGHA	D					storm drain x	PP-PETROLEUM
DEQ	08/21/92		NR	FAIRFAX	D					Indian Run B	PP-PETROLEUM
DEQ	08/27/92		NR	ALEXANDRI	D					storm drain	PP-PETROLEUM
DEQ	09/01/92		NR	PRINCE WIL	U					x-trib	PP-PETROLEUM
DEQ	09/04/92		NR	FAIRFAX	D					storm drain	PP-PETROLEUM
DEQ	09/04/92		NR	PRINCE WIL	D					Occoquan R.	PP-PETROLEUM
DEQ	09/17/92		NR	FAIRFAX	D						PP-PETROLEUM
DEQ	09/24/92		VR	ROCKINGHA	FC						PP-PETROLEUM
DEQ	09/25/92		VR	WARREN	FC						PP-PETROLEUM
DEQ	10/05/92		NR	FAIRFAX	D					storm drain	PP-PETROLEUM
DEQ	10/05/92		NR	PRINCE WIL	D					x-trib	PP-PETROLEUM
DEQ	10/05/92		NR	FAIRFAX	D					drain x-trib A	PP-PETROLEUM
DEQ	10/15/92		NR	PRINCE WIL	U					pond	PP-PETROLEUM
DEQ	10/19/92		NR	FAIRFAX	D						PP-PETROLEUM
DEQ	10/21/92		NR	PRINCE WIL	H/C						PP-PETROLEUM
DEQ	10/26/92		NR	ALEXANDRI	D					storm drain	PP-PETROLEUM
DEQ	10/27/92		VR	CLARKE	FC						PP-PETROLEUM
DES	10/27/92	0939	NR	ALEXANDRI	FC			N			PP-PETROLEUM
DEQ	11/05/92		NR	FAIRFAX	D					sanitary sew	PP-PETROLEUM
DEQ	11/05/92		NR	PRINCE WIL	FC					chopowamsi	PP-PETROLEUM
DEQ	11/06/92		VR	WARREN	T						PP-PETROLEUM
DEQ	11/10/92		VR	ROCKINGHA	D					GW	PP-PETROLEUM
DEQ	11/30/92		VR	ROCKINGHA	D						PP-PETROLEUM
DEQ	12/11/92		NR	ARLINGTON	D						PP-PETROLEUM

DES	11/25/90	1133	NR	PRINCE WIL	FC			1		GROUND W	PP-PETROLEUM - BATTERY
DES	06/18/92	1429	VR	FREDERICK	D			Y		CREEK NEA	PP-PETROLEUM AND COM
EPA	12/17/90	0	NR	FAIRFAX	D	0	U	0		LONG BRAN	PP-PETROLEUM BASED AE
DES	07/27/91	1254	NR	LOUDOUN	M					LENAH RUN	PP-PETROLEUM BASED PR
DES	06/25/88	0829	NR	PRINCE WIL	H			Y		OCCOQUAN	PP-PETROLEUM DISTILLAT
EPA	01/03/92	1100	VR	WAYNESBO	FC	1	G	1	G	SOUTH RIV	PP-PETROLEUM PP-OIL
DES	03/07/90	2135	NR	FAIRFAX	FC			1		STORM SE	PP-PETROLEUM PRODUCT
DES	06/12/90	2244	NR	ARLINGTON	M			1		LONG BRAN	PP-PETROLEUM PRODUCT
DES	11/20/90	1901	NR	STAFFORD	M			1		WHITSON'S	PP-PETROLEUM PRODUCT
DES	12/14/90	2258	NR	LOUDOUN	FC	100	G	0			PP-PETROLEUM PRODUCT
DES	12/17/90	1709	NR	FAIRFAX	M			1		LONG BRAN	PP-PETROLEUM PRODUCT
DES	12/18/90	1244	NR	FAIRFAX	M			1		LONG BRAN	PP-PETROLEUM PRODUCT
DES	12/18/90	2226	NR	FAIRFAX	FC			1		ACCOTINK	PP-PETROLEUM PRODUCT
DES	01/04/91	2353	NR	STAFFORD	M					CREEK	PP-PETROLEUM PRODUCT
DES	01/24/91	0824	TW	NORTHUMB	T					CRANE'S	PP-PETROLEUM PRODUCT
DES	12/03/91	1329	TW	NORTHUMB	FC					N	PP-PETROLEUM PRODUCT
DES	03/18/92	1720	NR	FAIRFAX	T			Y		CREEK TO	PP-PETROLEUM PRODUCT
DES	03/18/92	1905	NR	LOUDOUN	FC			N			PP-PETROLEUM PRODUCT
DES	04/29/92	1709	NR	FAIRFAX	FC			Y		CREEK TO	PP-PETROLEUM PRODUCT
DES	05/28/92	1458	NR	FALLS CHU	FC			N			PP-PETROLEUM PRODUCT
DES	05/23/90	1712	NR	ARLINGTON	FC			0			PP-PETROLEUM PRODUCT
DES	08/16/90	2144	NR	PRINCE WIL	H			1		SEVERAL C	PP-PETROLEUM PRODUCT
DES	09/24/90	1007	NR	ALEXANDRI	FC			1		STORM DR	PP-PETROLEUM PRODUCT
DES	10/19/90	1026	VR	FREDERICK	FC			0		O	PP-PETROLEUM PRODUCT
DES	02/10/91	0754	NR	FALLS CHU	P					TRIPP'S CR	PP-PETROLEUM PRODUCT
DES	06/20/91	1751	VR	WAYNESBO	M					SOUTH RIV	PP-PETROLEUM PRODUCT
DES	08/01/91	1105	NR	FAIRFAX	U					GW	PP-PETROLEUM PRODUCT
DES	11/11/91	1703	NR	FAIRFAX	FC					N	PP-PETROLEUM PRODUCT
DES	05/07/92	1115	NR	MANASSAS	FC			Y		CREEK	PP-PETROLEUM PRODUCT
DES	10/19/91	1415	NR	LOUDOUN	M					MARRIOT	PP-PETROLEUM PRODUTS
DES	04/06/91	09015	NR	FAIRFAX	H/C					DRAINAGE	PP-PETROLEUM WITH PES
DES	07/05/89	1145	VR	SHENANDO	D	125	G	Y		STORM DR	PP-PP-FUEL, DIESEL
DES	03/13/90	1138	NR	PRINCE WIL	D			0			PP-PP-FUEL, DIESEL
DES	05/06/91	1513	NR	STAFFORD	D					STREAM	PP-PP-FUEL, DIESEL, PP-OI
EPA	04/25/88	900	NR	ARLINGTON	D	5	G	0		FOUR MILE	PP-PP-FUEL, DIESELPP-OIL
EPA	11/05/92	1530	NR	PRINCE WIL	D	5	G	0	U		PP-PP-FUEL, JET : JP-5 (KE
DES	03/24/88	1521	NR	STAFFORD	H/C			~		~	PP-PROPANE
DES	11/08/88	1616	NR	STAFFORD	FC			N		~	PP-PROPANE
DES	04/13/89	1756	NR	STAFFORD	FC	20	LBS	N			PP-PROPANE
DES	07/09/89	0052	NR	FAUQUIER	FC	250	G	N			PP-PROPANE
DES	09/12/89	0743	NR	FAUQUIER	H/C						PP-PROPANE
DES	09/26/89	1247	NR	STAFFORD	H/C						PP-PROPANE
DES	01/02/90	2325	TW	NORTHUMB	FC			0			PP-PROPANE
DES	02/06/90	1715	NR	FAIRFAX	H/C			0			PP-PROPANE
DES	04/17/90	2323	TW	NORTHUMB	FC			0			PP-PROPANE
EPA	11/06/90	1415	NR	STAFFORD	FC	130	G	0		NONE	PP-PROPANE
DES	04/10/91	1411	NR	ALEXANDRI	FC					N	PP-PROPANE
DES	07/23/91	1616	NR	ALEXANDRI	FC					N	PP-PROPANE
DES	11/19/91	1944	NR	ALEXANDRI	FC	12.5	G			N	PP-PROPANE
DES	05/13/92	2142	NR	FAUQUIER	FC			N			PP-PROPANE
DES	08/20/92	1305	NR	FAIRFAX	FC			N			PP-PROPANE
EPA	02/06/90	0	NR	FAIRFAX	H/C	0	U	0		NONE	PP-PROPANE CYLINDERS (
DES	03/04/91	1015	NR	STAFFORD	FC					N	PP-PROPANE EXPLOSION
DES	02/17/88	1449	NR	PRINCE WIL	H/C	250	LBS	N		~	PP-PROPANE GAS
DES	05/18/88	2257	NR	LOUDOUN	FC			Y		INDIAN CRE	PP-PROPANE TANK
DES	12/09/88	1409	NR	FAUQUIER	H/C			N		~	PP-PROPANE VAPOR

EPA	06/11/89	630	NR	FAUQUIER	H/E	250	G	0		UNNAMED	PP-ROAD TAR
EPA	06/18/90	955	NR	PRINCE WIL	D	0	U	0		NONE	PP-SOLVENTS,PP-OIL,ANTI
DES	09/07/88	1133	NR	FAIRFAX	H/C			~		~	PP-TANKER FIRE
DES	08/28/89	1530	VR	SHENANDO	H	500	G	Y		CREEK	PP-TAR
DES	10/11/91	0953	NR	STAFFORD	H/C					N	PP-TAR
DES	12/18/90	1423	NR	FAIRFAX	M			1		POTOMAC	PP-TAR BALLS
DES	07/30/91	1530	NR	PRINCE WIL	M					POTOMAC	PP-TAR BALLS
DES	06/15/90	2020	TW	NORTHUMB	M/V			1		CHESAPEA	PP-TAR BALLS AND PP-OIL
DES	11/15/91	0916	NR	LOUDOUN	H/C					N	PP-TAZ SEALER, ROADWA
DES	10/06/91	2042	NR	STAFFORD	FC					N	PP-TIRE FIRE
DES	12/11/91	1655	VR	SHENANDO	FC					CREEK	PP-TIRE FIRE
DES	09/08/92	2230	TW	NORTHUMB	FC			N			PP-TIRE FIRE
DES	11/27/92	0056	NR	PRINCE WIL	FC			Y		DEWEY CR	PP-TIRE FIRE
DES	04/18/89	1740	VR	ROCKINGHA	FC	150	TIRE	Y		BENNETT R	PP-TIRE FIRE (150)
DES	12/14/89	1929	VR	PAGE	FC	350	TIRE	N			PP-TIRE FIRE (300-400)
DES	07/28/88	1947	NR	STAFFORD	FC			~		~	PP-TIRES AND PLASTIC BU
EPA	08/09/91	930	VR	WINCHESTE	T	5	G	0		ABRAMS CR	PP-TOPCOAT
EPA	02/01/90	1200	NR	FAIRFAX	D	0	U	0		POTOMAC	PP-WASTE WATER & PP-OI
DEQ	01/20/88		TW	WESTMORE	FC					x-trib Potom	SEWAGE
DEQ	01/25/88		NR	STAFFORD	P					Claiborne Ru	SEWAGE
DEQ	03/11/88		NR	STAFFORD	P			0			SEWAGE
DEQ	04/02/88		NR	PRINCE WIL	FC					Neabsco Cr.	SEWAGE
DES	04/25/88	1727	NR	STAFFORD	P			Y		AQUIA CRE	SEWAGE
DEQ	04/25/88		NR	STAFFORD	P					Aquia Cr.	SEWAGE
DEQ	05/08/88		NR	STAFFORD	P						SEWAGE
DEQ	05/13/88		NR	STAFFORD	FC			0			SEWAGE
DEQ	05/24/88		NR	STAFFORD	P					Aquia Cr.	SEWAGE
DEQ	05/28/88		NR	FAIRFAX	P					Buttermilk Cr	SEWAGE
DEQ	06/06/88		NR	FAIRFAX	P					Indian Run	SEWAGE
DEQ	06/30/88		NR	ALEXANDRI	P					Paul Spring	SEWAGE
DEQ	07/01/88		NR	FAIRFAX	P					x-trib Daniels	SEWAGE
DEQ	07/05/88		NR	FAIRFAX	P					Mills Br.	SEWAGE
DEQ	07/06/88		VR	FREDERICK	D						SEWAGE
DEQ	07/08/88		NR	FAIRFAX	P					Crooks Br.	SEWAGE
DEQ	07/12/88		NR	STAFFORD	FC					Aquia Cr.	SEWAGE
DEQ	08/16/88		NR	PRINCE WIL	D					Chapawamsi	SEWAGE
DEQ	08/22/88		NR	PRINCE WIL	P					Occoquan R	SEWAGE
DEQ	09/06/88		NR	PRINCE WIL	P			0			SEWAGE
DEQ	09/14/88		NR	ARLINGTON	FC					Gulf Run	SEWAGE
EPA	09/22/88	0	VR	WARREN	D	0	U	0		CRICKET R	SEWAGE
DEQ	09/23/88		VR	AUGUSTA	FC					South R.	SEWAGE
EPA	09/28/88	0	VR	WARREN	D	0	U	0		WELL CONT	SEWAGE
DEQ	09/30/88		NR	PRINCE WIL	P			0		Occoquan R.	SEWAGE
DEQ	10/06/88		NR	PRINCE WIL	D					Neabsco Cr.	SEWAGE
EPA	10/06/88	0	NR	PRINCE WIL	D	0	U	0		NEABSCO	SEWAGE
DEQ	10/09/88		NR	LOUDOUN	H/C			0			SEWAGE
DEQ	10/11/88		NR	FAIRFAX	FC					Giles Run	SEWAGE
DEQ	10/18/88		NR	STAFFORD	FC			0			SEWAGE
DEQ	10/26/88		NR	STAFFORD	FC			0			SEWAGE
DEQ	11/06/88		NR	STAFFORD	FC					Claiborne Ru	SEWAGE
DEQ	11/09/88		NR	STAFFORD	FC			0			SEWAGE
DEQ	11/12/88		NR	STAFFORD	P					x-trib	SEWAGE
DEQ	11/15/88		NR	STAFFORD	P						SEWAGE
DEQ	11/15/88		NR	FAIRFAX	D					storm drain	SEWAGE
DEQ	11/25/88		NR	PRINCE WIL	P						SEWAGE
DEQ	12/08/88		NR	PRINCE WIL	P					Neabsco Cr.	SEWAGE

DEQ	12/19/88		NR	STAFFORD	FC			0			SEWAGE
DEQ	01/06/89		NR	PRINCE WIL	FC					x-trib Occoqu	SEWAGE
DEQ	01/09/89		NR	FAUQUIER	FC					x-trib Great	SEWAGE
DEQ	01/10/89		NR	ARLINGTON	D					Gulf Run	SEWAGE
DEQ	01/12/89		NR	FAUQUIER	D			0			SEWAGE
DEQ	01/20/89		NR	STAFFORD	P					x-trib Aquia	SEWAGE
DEQ	01/24/89		NR	STAFFORD	U					Aquia Cr.	SEWAGE
DEQ	01/30/89		VR	HARRISONB	D					x-trib Black's	SEWAGE
DEQ	01/31/89		VR	HARRISONB	P					x-trib Blacks	SEWAGE
DEQ	01/31/89		VR	HARRISONB	P					Blacks Run	SEWAGE
DEQ	02/08/89		NR	FAIRFAX	P					Pohick Cr.	SEWAGE
DEQ	02/20/89		NR	STAFFORD	P					Aquia Cr.	SEWAGE
DEQ	02/20/89		NR	STAFFORD	D					x-trib Quarry	SEWAGE
DEQ	02/21/89		TW	WESTMORE	FC					Monroe Bay	SEWAGE
DEQ	03/01/89		NR	LOUDOUN	FC					x-trib Catocti	SEWAGE
DEQ	03/02/89		NR	PRINCE WIL	FC					x-trib Occoqu	SEWAGE
DEQ	03/06/89		TW	WESTMORE	FC					Monroe Bay	SEWAGE
DEQ	03/06/89		NR	STAFFORD	FC					x-trib Aquia	SEWAGE
DEQ	03/06/89		NR	STAFFORD	P					Claiborne Ru	SEWAGE
DEQ	03/10/89		NR	STAFFORD	P			0			SEWAGE
DEQ	03/10/89		NR	FAIRFAX	P					Potomac R.	SEWAGE
DEQ	03/24/89		NR	STAFFORD	FC					Claiborne Ru	SEWAGE
DEQ	03/27/89		NR	ALEXANDRI	FC					Fourmile Ru	SEWAGE
DEQ	04/04/89		NR	STAFFORD	P					Claiborne Ru	SEWAGE
DEQ	04/08/89		NR	STAFFORD	P					Austin Run	SEWAGE
DEQ	04/10/89		NR	FAUQUIER	FC			0			SEWAGE
DEQ	04/13/89		NR	STAFFORD	P					Whitson's Ru	SEWAGE
DEQ	04/15/89		TW	WESTMORE	FC					Potomac R.	SEWAGE
DEQ	04/17/89		NR	STAFFORD	FC					x-trib Aquia	SEWAGE
DEQ	04/19/89		NR	STAFFORD	FC					Aquia Cr.	SEWAGE
DEQ	04/21/89		NR	FAUQUIER	D					x-trib South	SEWAGE
DEQ	04/24/89		NR	FAUQUIER	FC					x-trib South	SEWAGE
DEQ	04/24/89		NR	STAFFORD	FC			0			SEWAGE
DEQ	04/28/89		NR	STAFFORD	FC					x-trib Smith L	SEWAGE
DEQ	05/01/89		NR	STAFFORD	FC					Claiborne Cr.	SEWAGE
DEQ	05/02/89		VR	SHENANDO	D					N.F. Shenan	SEWAGE
DEQ	05/02/89		VR	HARRISONB	FC					Blacks Run	SEWAGE
DEQ	05/02/89		VR	PAGE	FC						SEWAGE
DEQ	05/05/89		NR	STAFFORD	FC			0			SEWAGE
DEQ	05/06/89		NR	FAUQUIER	FC					No Name Cr.	SEWAGE
DEQ	05/06/89		TW	WESTMORE	FC					Monroe Cr.	SEWAGE
DEQ	05/07/89		NR	FAIRFAX	FC					Bull Run	SEWAGE
DEQ	05/08/89		VR	HIGHLAND	FC					West Strait	SEWAGE
DEQ	05/08/89		NR	MANASSAS	FC					Flat Branch	SEWAGE
DEQ	05/08/89		VR	ROCKINGHA	P					Shenandoah	SEWAGE
DEQ	05/08/89		NR	MANASSAS	P					Flat Branch	SEWAGE
DEQ	05/09/89		NR	FAUQUIER	FC					South Run	SEWAGE
DEQ	05/09/89		VR	AUGUSTA	FC					North R.	SEWAGE
DEQ	05/09/89		NR	PRINCE WIL	FC						SEWAGE
DEQ	05/10/89		VR	HIGHLAND	FC					West Strait C	SEWAGE
DEQ	05/10/89		VR	FREDERICK	FC					Stephens Ru	SEWAGE
DEQ	05/11/89		VR	ROCKINGHA	FC					N.F. Shenan	SEWAGE
DEQ	05/12/89		VR	FREDERICK	P					Lake Holiday	SEWAGE
DEQ	05/17/89		NR	ARLINGTON	FC					Four Mile Ru	SEWAGE
DEQ	05/18/89		VR	WARREN	FC					Shenandoah	SEWAGE
DEQ	05/18/89		NR	PRINCE WIL	D						SEWAGE

DEQ	05/19/89		VR	CLARKE	FC						SEWAGE
DEQ	05/24/89		NR	FAUQUIER	FC					x-trib Great	SEWAGE
DEQ	06/08/89		VR	ROCKINGHA	FC			0		Shenandoah	SEWAGE
DEQ	06/08/89		NR	STAFFORD	FC					Aquia Cr.	SEWAGE
DEQ	06/09/89		NR	ALEXANDRI	P					Cameron Ru	SEWAGE
DEQ	06/09/89		NR	ARLINGTON	FC					Four Mile Ru	SEWAGE
DEQ	06/09/89		NR	ARLINGTON	FC					Four Mile Ru	SEWAGE
DEQ	06/12/89		NR	FAUQUIER	FC					Tinpot Run	SEWAGE
DEQ	06/12/89		NR	FAUQUIER	P					Marsh Run	SEWAGE
DEQ	06/18/89		NR	STAFFORD	FC						SEWAGE
EPA	07/22/89	1630	NR	FAIRFAX	D	0	U	0		COLVIN MIL	SEWAGE
DEQ	09/26/89		NR	FAIRFAX	D					x-trib Mills Br	SEWAGE
DEQ	01/03/90		NR	FAIRFAX	P					Occoquan R.	SEWAGE
DEQ	02/22/90		VR	AUGUSTA	D					x-trib Back C	SEWAGE
DEQ	04/13/90		NR	PRINCE WIL	FC					x-trib Neabsc	SEWAGE
DEQ	04/30/90		NR	PRINCE WIL	FC					Powells Cr.	SEWAGE
DEQ	05/15/90		NR	FAIRFAX	FC					Giles Run	SEWAGE
DEQ	05/23/90		NR	STAFFORD	D					x-trib Aquia	SEWAGE
DEQ	06/15/90		NR	FAIRFAX	P					Backlick Run	SEWAGE
DEQ	04/12/91		VR	SHENANDO	P					storm sewer	SEWAGE
DEQ	07/03/91		VR	WARREN	U					x-trib N. F. S	SEWAGE
DEQ	08/21/91		NR	KING GEOR	D					Machodoc Cr	SEWAGE
DEQ	08/30/91		NR	FAIRFAX	H/C			0			SEWAGE
DEQ	09/20/91		VR	HARRISONB	P					Blacks Run	SEWAGE
DEQ	11/14/91		NR	FAIRFAX	P					x-trib Potom	SEWAGE
DEQ	04/13/92		VR	PAGE	U					GW Battle Cr	SEWAGE
DEQ	05/15/92		TW	WESTMORE	D						SEWAGE
DEQ	06/19/92		VR	HARRISONB	P					Blacks Run	SEWAGE
DEQ	07/01/92		TW	NORTHUMB	U					Horn Harbor	SEWAGE
DES	08/02/92	1132	NR	STAFFORD	FC			Y		AQUIA CRE	SEWAGE
DEQ	11/02/92		VR	WINCHESTE	P					Town Run	SEWAGE
DES	05/28/92	0938	VR	AUGUSTA	FC			N			SEWAGE, UNTREATED
DES	04/15/92	1615	NR	LOUDOUN	FC	5	G	N			TOC-ATROZINE AND WATE
DES	04/19/92	2010	NR	FAIRFAX	D			N			TOC-BATTERIES
DES	11/20/92	1913	NR	ALEXANDRI	FC			N			TOC-BATTERIES, LEAD AC
DES	05/10/88	0159	VR	SHENANDO	H/C			~		~	TOC-BATTERY ACID
DES	07/27/88	2025	NR	PRINCE WIL	H/C			~		~	TOC-BATTERY ACID
DES	09/06/89	1803	NR	FAIRFAX	FC	100	BAT	N			TOC-BATTERY ACID
DES	05/14/90	1715	NR	FALLS CHU	H/V			1		HOLMES RU	TOC-CHROMIUM - ETC
DES	11/23/90	0858	NR	FAUQUIER	FC			1		GROUND W	TOC-COPPER
EPA	10/01/89	1200	NR	FAUQUIER	D	0	U	0		(DRINKING	TOC-COPPER FROM ABAN
EPA	11/16/89	1200	NR	FAUQUIER	FC	0	U	0		DRINKING	TOC-COPPER FROM MINI
EPA	11/26/90	0	NR	FAUQUIER	U	0	U	0		(DRINKING	TOC-LEAD
DES	06/15/88	1817	NR	STAFFORD	M			Y		CREEK TO	TOC-MERCURY
DES	07/22/89	0800	NR	FAUQUIER	FC			Y		GREAT RUN	TOC-MERCURY
EPA	07/27/91	0	NR	LOUDOUN	T	1	O	0		NONE	TOC-MERCURY
DES	04/05/89	2001	NR	FAIRFAX	FC			N			TOC-MERCURY SULPHUR
EPA	09/01/88	1100	NR	FAIRFAX	T	0	U	0		STORM SE	TOC-MERCURY, ELEMENTA
DES	03/28/91	0900	NR	PRINCE WIL	FC	15	OZ			N	TOC-MERCURY, METALLIC
DES	05/11/90	1630	VR	PAGE	FC			0			TOC-PICRIC ACID - MERCU
EPA	03/26/88	0	NR	LOUDOUN	U	3000	G	0		BROAD RUN	UNK OIL
CG	05/01/92	1200	NR	FAIRFAX	D	200	G	200	G		UNK-
CG	03/30/89	930	NR	FAUQUIER	U	50	G	50	G	STORM SE	UNK- WHITE CORR. GEL
CG	03/28/88	850	NR	ALEXANDRI	U	0	U	0	U	POTOMAC	UNK- WHITE FOAM
CG	02/17/89	730	VR	CLARKE	U	0	U	0	U	SHENANDO	UNK- WHITE FOAM
CG	04/14/88	1815	NR	FAIRFAX	D	0	U	0	U	LITTLE ROC	UNK- WHITE MILKY SUB

CG	03/08/89	0	NR	FAIRFAX	D	5	G	0	N		UNK- YELLOW LIQ
EPA	09/20/91	0	NR	FAIRFAX	U	0	U	0		UNNAMED	UNK-BLACK OILY SUBSTAN
EPA	07/25/88	1430	NR	ARLINGTON	U	0		0		POTOMIC RI	UNK-BLACK SLUDGE
EPA	08/02/90	1950	NR	FAIRFAX	D	0	U	0		GILES CRE	UNK-BLACK SUBSTANCE
DES	12/21/91	0948	VR	FREDERICK	FC					BACK CREE	UNK-CHEMICALS, BLACK S
DES	09/09/92	1353	NR	FAIRFAX	H			Y		ACCOTINK	UNK-GREEN SOAP SOLUTI
EPA	10/29/88	0	NR	FAIRFAX	H	0	U	0		NONE	UNK-LIQUID WASTE
DES	08/19/88	1022	VR	ROCKINGHA	FC			~		~	UNK-RADIOACTIVE STICKE
EPA	05/16/89	1500	TW	WESTMORE	U	0	U	0		UNKNOWN	UNK-WATER W/BLACK & R
DES	02/17/89	0756	VR	CLARKE	H			Y		SHENANDO	UNK-WHITE FOAM
EPA	04/06/89	1000	NR	ARLINGTON	D	0	U	0		FOUR MILE	UNK-WHITE FOAMY MATER
DES	08/23/88	1751	NR	ARLINGTON	P			Y		FOUR MILE	UNK-WHITE MILKY SUBSTA
DES	11/07/90	0646	NR	PRINCE WIL	R/C			0			UNK-WHITE POWDER - PO
EPA	03/02/91	1200	NR	PRINCE WIL	D	0	U	0		MARSH ARE	UNK-WHITE UNKNOWN CH
EPA	03/08/88	0	NR	ALEXANDRI	D	0	U	0		NONE	UNK-YELLOW LIQUID
DES	03/21/89	1649	NR	ALEXANDRI	FC			N			UNK-YELLOW LIQUID
DES	01/24/88	1921	NR	FAIRFAX	D			N		~	UNKNOWN
DES	04/20/88	1618	NR	ARLINGTON	FC			Y		DRAIN	UNKNOWN
DES	04/21/88	0815	VR	WINCHESTE	H/C			N		~	UNKNOWN
DES	04/21/88	1525	NR	PRINCE WIL	H			N		~	UNKNOWN
EPA	05/03/88	1330	VR	WAYNESBO	U	50	D	0		NONE	UNKNOWN
EPA	05/09/88	810	NR	PRINCE WIL	D	0		0		NEABSCO C	UNKNOWN
DES	06/09/88	2243	VR	WARREN	M/C			Y		SHENANDO	UNKNOWN
EPA	06/15/88	0	NR	FAIRFAX	U	0		0			UNKNOWN
DES	07/30/88	1320	NR	ALEXANDRI	FC			Y		CREEK	UNKNOWN
EPA	08/15/88	1900	NR	FAIRFAX	U	0		0		NONE	UNKNOWN
DES	08/16/88	1533	NR	FAIRFAX	FC			N		~	UNKNOWN
DES	09/28/88	1154	NR	STAFFORD	M/C			N		~	UNKNOWN
DEQ	09/30/88		NR	FAIRFAX	D					x-trib Accotin	UNKNOWN
DEQ	10/27/88		NR	ALEXANDRI	FC					Potomac R.	UNKNOWN
DES	10/30/88	0124	NR	ALEXANDRI	FC			~		~	UNKNOWN
DEQ	01/30/89		VR	HARRISONB	D					x-trib Black's	UNKNOWN
DES	03/28/89	1108	NR	PRINCE WIL	FC			N			UNKNOWN
EPA	03/28/89	0	NR	PRINCE WIL	D	0	U	0		NONE	UNKNOWN
DEQ	04/04/89		VR	FREDERICK	U					Meadow Bro	UNKNOWN
DEQ	04/28/89		NR	FAIRFAX	D					x-trib Tripps	UNKNOWN
DES	05/31/89	1410	NR	MANASSAS	FC	330	G				UNKNOWN
EPA	05/31/89	1200	NR	MANASSAS	FC	0	U	0		UNKNOWN	UNKNOWN
DES	06/29/89	1407	NR	LOUDOUN	FC			Y		DRINKING	UNKNOWN
DES	07/14/89	1601	VR	SHENANDO	T						UNKNOWN
DEQ	08/13/89		NR	FAUQUIER	U					Warrenton L	UNKNOWN
DEQ	08/15/89		NR	ALEXANDRI	FC						UNKNOWN
DEQ	09/21/89		NR	ALEXANDRI	D					Four Mile Ru	UNKNOWN
DEQ	10/03/89		VR	ROCKINGHA	FC					Blacks Run	UNKNOWN
DES	11/22/89	2242	NR	PRINCE WIL	FC						UNKNOWN
DES	01/12/90	1121	NR	ARLINGTON	D			0			UNKNOWN
DEQ	01/16/90		NR	FAIRFAX	D					x-trib Accotin	UNKNOWN
DEQ	01/16/90		NR	ALEXANDRI	U					Long Br.	UNKNOWN
DEQ	01/22/90		VR	SHENANDO	FC					x-trib N. F. S	UNKNOWN
DEQ	03/06/90		NR	FAIRFAX	FC						UNKNOWN
DES	03/08/90	1500	NR	STAFFORD	H/C			0			UNKNOWN
DEQ	03/28/90		NR	LOUDOUN	FC						UNKNOWN
EPA	04/10/90	0	NR	STAFFORD	FC	0	U	0		POTENTIAL	UNKNOWN
DEQ	04/19/90		NR	FAIRFAX	FC					Colvin Run	UNKNOWN
DES	04/23/90	1035	NR	LOUDOUN	FC			1		WILLOW PO	UNKNOWN
DEQ	04/30/90		NR	FAIRFAX	U						UNKNOWN

EPA	05/05/90	0	NR	FAIRFAX	U	0	U	0		POND	UNKNOWN
DES	05/07/90	2108	VR	AUGUSTA	T			0			UNKNOWN
DEQ	05/14/90		NR	FALLS CHU	D					x-trib Holmes	UNKNOWN
DES	05/28/90	1232	VR	FREDERICK	M			1		INDIAN LAK	UNKNOWN
DES	06/18/90	1109	NR	PRINCE WIL	D			1		UNKNOWN	UNKNOWN
DEQ	06/25/90		NR	LOUDOUN	D						UNKNOWN
DEQ	07/11/90		NR	FAUQUIER	U					x-trib	UNKNOWN
DEQ	07/17/90		NR	FAIRFAX	U					x-trib Giles R	UNKNOWN
DEQ	08/27/90		NR	PRINCE WIL	D					storm drain	UNKNOWN
DEQ	09/10/90		NR	FAIRFAX	D					x-trib Accotin	UNKNOWN
DES	09/27/90	1052	NR	FAIRFAX	H/C			0			UNKNOWN
DEQ	10/02/90		NR	FAIRFAX	D					x-trib Lake B	UNKNOWN
DEQ	10/16/90		NR	FAIRFAX	D					Rocky Br.	UNKNOWN
DEQ	11/13/90		VR	WAYNESBO	U						UNKNOWN
DES	11/14/90	1523	NR	PRINCE WIL	FC			0			UNKNOWN
DEQ	12/12/90		NR	FAIRFAX	D					Wolftrap Cr.	UNKNOWN
DEQ	12/13/90		NR	FAIRFAX	D					x-trib	UNKNOWN
DES	12/26/90	0753	NR	ALEXANDRI	FC			0			UNKNOWN
DEQ	12/26/90		VR	WARREN	D					Happy Cr.	UNKNOWN
DEQ	01/24/91		NR	FAIRFAX	U					x-trib Little Pi	UNKNOWN
DEQ	01/27/91		NR	PRINCE WIL	FC					Bull Run Occ	UNKNOWN
DEQ	02/10/91		NR	FALLS CHU	P					Tripps Run	UNKNOWN
DES	02/21/91	1828	VR	WINCHESTE	H/C					N	UNKNOWN
DEQ	02/27/91		NR	ARLINGTON	U					x-trib Christia	UNKNOWN
DEQ	03/28/91		VR	ROCKINGHA	D					Quail Run	UNKNOWN
DES	04/08/91	1055	NR	PRINCE WIL	D					N	UNKNOWN
DEQ	04/17/91		NR	FALLS CHU	D					x-trib	UNKNOWN
DEQ	04/23/91		NR	FALLS CHU	D					Tripps Run	UNKNOWN
EPA	05/10/91	0	VR	CLARKE	D	0	U	0		NONE	UNKNOWN
DEQ	06/07/91		VR	HARRISONB	P					Blacks Run	UNKNOWN
DES	06/12/91	1309	NR	PRINCE WIL	D					N	UNKNOWN
DES	06/18/91	1127	NR	LOUDOUN	FC					N	UNKNOWN
DEQ	06/27/91		NR	FAUQUIER	U					Brown's Run	UNKNOWN
DES	06/27/91	1217	NR	PRINCE WIL	D					N	UNKNOWN
DES	07/05/91	1833	NR	FAIRFAX	M					POTOMAC	UNKNOWN
DES	08/06/91	1921	VR	FREDERICK	H					N	UNKNOWN
DES	08/14/91	1222	VR	ROCKINGHA	FC					N	UNKNOWN
DES	09/10/91	1105	NR	MANASSAS	T					N	UNKNOWN
DES	01/17/92	0735	NR	LOUDOUN	FC			F			UNKNOWN
DES	02/05/92	1140	NR	STAFFORD	H/C			Y		STREAM	UNKNOWN
DES	02/26/92	1852	NR	FALLS CHU	FC			N			UNKNOWN
DES	03/02/92	13030	NR	STAFFORD	FC			N			UNKNOWN
DES	03/14/92	1352	TW	NORTHUMB	FC			N			UNKNOWN
DES	04/07/92	0830	NR	FAUQUIER	FC			N			UNKNOWN
DES	04/08/92	0750	VR	STAUNTON	FC			N			UNKNOWN
DES	04/23/92	1233	NR	ALEXANDRI	FC			N			UNKNOWN
DES	05/22/92	1039	NR	FAUQUIER	T			N			UNKNOWN
DES	07/08/92	0842	NR	PRINCE WIL	M/C			Y		OCCOQUAN	UNKNOWN
DES	07/23/92	1549	VR	FREDERICK	D			N			UNKNOWN
DES	07/23/92	1320	NR	STAFFORD	M			Y		POTOMAC	UNKNOWN
DES	09/03/92	1855	NR	KING GEOR	H/C			N			UNKNOWN
DES	09/11/92	1614	NR	ALEXANDRI	FC			N			UNKNOWN
DES	10/09/92	1227	NR	MANASSAS	FC			N			UNKNOWN
DES	04/25/91	1128	VR	WARREN	FC					N	UNKNOWN (ETHER PP-PET
DES	11/04/89	0715	NR	FAUQUIER	FC			Y			UNKNOWN (POSSIBLY BAR
DES	10/11/90	1106	NR	FAUQUIER	D			0			UNKNOWN - VEHICLE UNI

DE	03/30/89	1044	NR	FAUQUIER	FC			Y		STORM DR	UNKNOWN - WHITE CORRO
DES	11/23/90	1424	NR	FAIRFAX	FC			1		ACCOTINK	UNKNOWN BLACK LIQUID
DES	10/20/89	1721	VR	WARREN	R			Y		SHENANDO	UNKNOWN BLACK SUBSTA
DE	08/04/92	0710	NR	FAIRFAX	H/C			N			UNKNOWN CHEMICALS
DE	09/17/91	1710	VR	HARRISONB	FC					SHENANDO	UNKNOWN COMBUSTIBLE
DES	06/16/90	1735	VR	FREDERICK	M			1		POND	UNKNOWN FLUORESCENT
DE	08/31/90	1042	TW	NORTHUMB	D			0			UNKNOWN GRANULE
DE	05/11/91	2251	NR	FAUQUIER	FC					N	UNKNOWN GREEN GLOWI
EPA	02/07/90	1230	NR	FAIRFAX	D	0	U	0		STORM DR	UNKNOWN GREEN MATERI
DES	08/26/92	0947	NR	ARLINGTON	D			N			UNKNOWN GREEN PRODU
DE	01/13/92	1213	VR	CLARKE	D			F			UNKNOWN HAZARDOUS M
DES	07/28/89	1959	NR	FAIRFAX	FC	50	G	Y		POHICK CR	UNKNOWN HEAVY BRIGHT
EPA	01/12/90	900	NR	ARLINGTON	D	0	U	0		STORM DR	UNKNOWN MATERIAL
EPA	03/15/90	2359	NR	FAUQUIER	FC	0	U	0		NONE	UNKNOWN MATERIAL
EPA	04/14/90	1200	NR	LOUDOUN	FC	0	U	0		WILLOW PO	UNKNOWN MATERIAL
EPA	03/01/91	700	NR	PRINCE WIL	D	0	U	0		NONE	UNKNOWN MATERIAL
EPA	06/05/91	1200	NR	PRINCE WIL	D	0	U	0		NONE	UNKNOWN MATERIAL
EPA	08/06/91	1815	VR	FREDERICK	H/C	0	U	0		NONE	UNKNOWN MATERIAL
EPA	09/18/91	1130	NR	FAIRFAX	D	0	U	0			UNKNOWN MATERIAL
EPA	11/14/91	1730	NR	FAIRFAX	U	0	U	0	U	STORM SE	UNKNOWN MATERIAL (GAR
EPA	08/13/91	1515	NR	FAIRFAX	D	0	U	0			UNKNOWN MIXTURE OF CL
DES	07/31/90	1056	NR	LOUDOUN	FC			0		OCCOQUAN	UNKNOWN PRODUCT
DES	07/31/92	1517	NR	FAIRFAX	D	200	G	Y		~	UNKNOWN WHITE FOAM
DES	07/22/88	1503	NR	ARLINGTON	P			N		CREEK	UNKNOWN WHITE GRANUL
DES	01/08/92	1809	NR	ALEXANDRI	FC			T			UNKNOWN WHITE LUMPY
DES	08/23/89	1913	NR	LOUDOUN	FC						UNKNOWN WHITE POWDE
DES	06/15/90	1825	NR	FAUQUIER	R			0			UNKNOWN WHITE STICKY
DES	08/29/90	0804	NR	PRINCE WIL	H/C			0			