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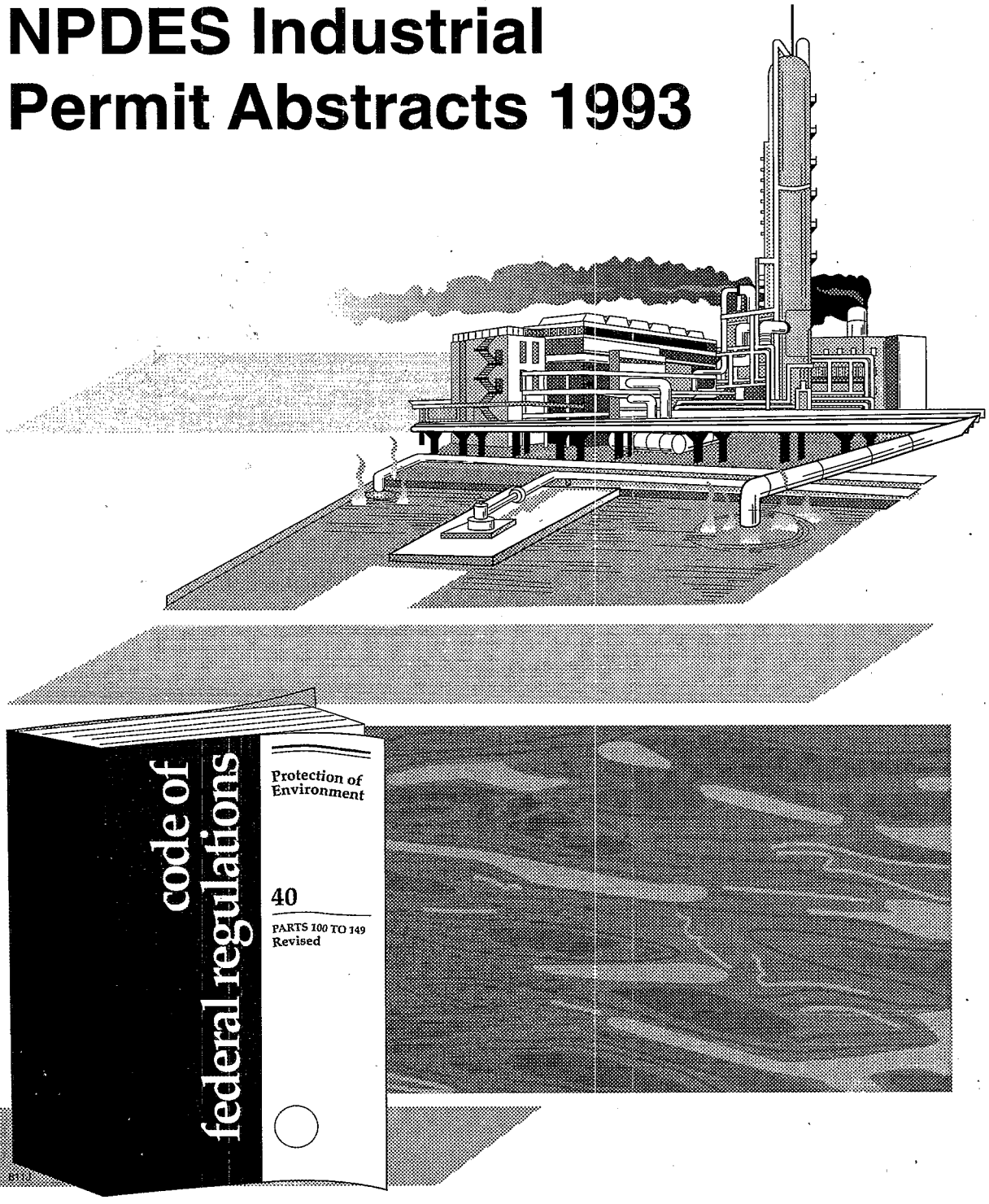
EPA NPDES Industrial Permit Abstracts 1993



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NPDES INDUSTRIAL PERMIT ABSTRACTS 1993

Office of Wastewater Enforcement and Compliance
Permits Division
U.S. Environmental Protection Agency
Washington, D.C.

Sixth Edition
October 1993

This sixth edition of the NPDES permit abstracts, NPDES Industrial Permit Abstracts 1993, was prepared by Science Applications International Corporation (SAIC), Falls Church, Virginia, under contract to the U.S. Environmental Protection Agency. The EPA Project Manager was Deborah Nagle, Environmental Engineer.

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INTRODUCTION

National Pollutant Discharge Elimination System (NPDES) permit abstracts are a valuable tool for permit writers to use in determining creative solutions to pollutant problems, and in drafting technically and legally substantiated permit conditions. This updated permit abstracts version was compiled in recognition of the need for abstracts of recent permits to reflect NPDES program progress and recent policies and initiatives. These abstracts were written based on voluntary submissions of NPDES industrial wastewater permits, requested from States and EPA regional permitting authorities. This edition of the abstracts includes permits from 37 states.

The permit abstracts are organized into five sections: general information, permit summary information, outfall information, special conditions information, and dates. These abstracts are indexed by the following subjects, to provide quick searches:

- Type of limitations/monitoring conditions, such as best professional judgement or state water quality standards
- Type of special condition, such as requirements for a best management practices plan or a storm water plan
- Effluent guidelines
- Pollutant
- Receiving water
- Type of industry, i.e., SIC code

The remaining discussion is on the contents of the five sections of the abstract.

GENERAL INFORMATION

The first two lines of the permit abstract provides general information on the permit. This includes the facility name, the NPDES permit number, a description of what the facility does, and the SIC code. The general information comprises a header for the permit abstract, and thus can be found repeated on each page of a multiple page permit abstract. Exhibit 1 provides an example of the general information section, as well as the summary information which is discussed in the next section.

Efforts were made to record the facility name as uniquely as possible in order to differentiate among facilities. This was particularly true where more than one facility was owned or operated by the same corporation. For example, a permit issued to "Horatio Power and Light" may be abstracted as "Horatio P&L, Radon Station." Since this approach was taken, the facility name recorded for abstract purposes may not be spelled the same way as shown on the permit. The permit number was

abstract purposes may not be spelled the same way as shown on the permit. The permit number was taken from the permit; however, where additional numbers or letters were found on the permit, these were not included.

A field for entering the facility description provides a simplified summary of the primary operations at the facility and the representative SIC code.

SUMMARY INFORMATION

To provide the permit writer with a quick overview of the approach taken in a permit, a summary of the bases for the permit limitations and the special conditions was created in checklist format. This is displayed in the two "quick look" menu tables in Exhibit 1. The permit writer should be able to find further information on those items flagged in the "quick look" tables by reading the limitations basis discussion or the special conditions basis discussion.

For the limitations basis "quick look" table, the following basis types were included:

- Effluent limitations guidelines (ELGs) - If ELGs as cited in 40 CFR were referred to as the basis for any limitation in the permit, this was flagged yes.
- Water quality standards (WQSs) - If State WQSs were cited as the basis for any limitation in the permit, this was flagged yes.

EXHIBIT 1. General and Summary Information in the Abstract

Facility Name: Johnson & Johnson Advanced Mat								**Permit Number:** GA0001791	
Facility Description: Manufactures woven gauze products and film from polymers								**SIC Code:** 2833	
Limit Basis:	ELGs -	WQSs √	BPJ √	Monitoring Only √	WET Limits -	WET Testing Only -	Multiple Categories -	Tiered Limits -	Other -
Special Conditions:	BMPs √	Storm Water -	Sediment -	WQ Survey -	Bio Survey -	TRES -	MDLs √	Monitoring √	Other √
Abstract Information: Complete; Outfalls 001(A and B created for abstracting purposes), and 002.									

- Monitoring only - When this was flagged yes, the permit requires the permittee to monitor for a specified parameter, with no limitation established.

- Whole effluent toxicity (WET) — If WET limits are in the permit, this field was flagged yes.

- WET testing only - If WET testing only was flagged with a yes, it means that the permittee is required to conduct WET testing, but no limitations were established.

- Multiple categories - If more than one ELG was cited as the basis for limitations, this is flagged yes.

- Tiered production - If any limitation is variable due to varying production levels or seasonal requirements, this was flagged with a yes.

- Other - If the basis for any limitation was cited as anything other than those described above, such as previous permit limits (antibacksliding), then this was flagged with a yes.

The special conditions selected to appear in the "quick look" table included:

- Best management practices (BMPs) and BMP plans - If BMPs are addressed in the permit, or the permittee is required to develop a BMP plan, this was flagged with a yes.

- Storm water pollution prevention plans - If the permit contains conditions which specifically address storm water, this was flagged with a yes.

- Sediment sampling - If the permit contains conditions requiring the permittee to analyze sediment samples, this was flagged with a yes.

- Water quality surveys - If the permit contains conditions requiring the permittee to conduct water quality studies or surveys (i.e., analyze for priority pollutants in the receiving stream annually), this was flagged with a yes.

- Biological surveys - If the permit contains conditions requiring the permittee to conduct biological surveys (i.e., estimate populations of specified species), this was flagged with a yes.

- Toxicity reduction evaluations (TREs) - If the permit contains the requirement to conduct a TRE in the event that the facility is not compliant with the WET limitation(s), this was flagged with a yes.

- Specific method detection levels (MDLs) - If the permit contains limitations that are at or below the ability of analytical laboratories to measure, and provides instructions for MDLs, this was flagged with a yes.

- Monitoring as a special condition - If monitoring is established in Part III of the permit, or elsewhere in the permit, apart from the limitations section, this was flagged with a yes.

- Other special conditions - If other special conditions worth noting, such as sludge conditions, are found in the permit, this was flagged with a yes.

The information summary section also contains two lines entitled "Abstract Information." This is important information for two reasons. First, this field is used to note when the abstract lists less than all of the outfalls. This was done to avoid redundancy and to minimize resources. A partial abstract was developed only when the limitations and monitoring requirements and their bases were identical for more than one outfall. A second purpose served by this field is to note when artificial outfall designations were created for abstracting purposes. When tiered limits (seasonal or production based) were included in a permit, separate outfall designations were created within the abstract and noted in this field (i.e., Outfall 001 became Outfalls 001A and 001B). This field was also useful when assigning a numerical designation to an outfall identified only by narrative in a permit.

OUTFALL SPECIFIC INFORMATION

Information on each outfall is displayed in the abstract as shown in Exhibit 2. The Outfall designation (number), the receiving water, the effluent treatment abbreviation(s), and the amount and components of the discharge are followed by a table containing the limitations and monitoring requirements for each parameter. This table is followed by a summary of the basis for the limitations and monitoring conditions as provided in the permit fact sheet.

With the exception of the treatment technologies, the outfall-specific information in most cases was literally recorded from the permit and the fact sheet. Each discharge from the facility is represented by an outfall identification number. When an outfall identification number was not included in the permit, it was assigned as part of the abstracts process and noted under "Abstract Information" in the abstract summary. The outfall's receiving water was generally recorded literally. In some cases the description of the receiving waters had to be shortened. This was accomplished by including only the first proper name of the water. Where an internal outfall was abstracted, the receiving water was identified as the receiving outfall (e.g., internal to Outfall 003). The description of the discharge amount and components was usually found in the fact sheet. In many cases, the quantity of discharge was not identified and this was signified by "Unspecified amount of ....." Where there were lengthy outfall component identifications, only the primary component(s) of the discharge were summarized.

To summarize the treatment technologies used by the facilities, the familiar treatment technology codes and symbols used as part of EPA's Risk Reduction Engineering Laboratory (RREL) database were incorporated. Some additional codes were employed in order to incorporate treatment descriptions literally and thus avoid ambiguities. Appendix A provides a list of the abbreviations representing the treatment technologies and their corresponding term.

EXHIBIT 2. Outfall Information in the Permit Abstract

Outfall: 001A | Receiving Water: Redwine Creek | Treatment: Eq + AS + Dis

Amount/Components:
An average flow of 0.17 MGD, consisting of process wastewater treatment plant effluent, effective 9/4/92 through 5/31/93

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	184.000000 lb/d N/A	368.000000 lb/d N/A		3/week	24hr composite
COD	1304.000000 lb/d N/A	2607.000000 lb/d N/A		3/week	24hr composite
Cr (T)	2.000000 lb/d N/A	4.000000 lb/d N/A		1/quarter	24hr composite
Cu	Report N/A	Report N/A	Units not specified	1/month	24hr composite
FC	N/A N/A	N/A 400.000000	Units: #/100 ml	1/week	grab
Flow	N/A Report	N/A Report MGD		continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	3/week	grab
Phenols	2.000000 lb/d N/A	4.000000 lb/d N/A		1/quarter	grab
Sulfide	4.000000 lb/d N/A	8.000000 lb/d N/A		1/quarter	grab
TSS	408.000000 lb/d N/A	816.000000 lb/d N/A		3/week	24hr composite
Zn	Report N/A	Report N/A	Units not specified	1/year	24hr composite

Limitations/Monitoring Basis:
The BOD5 limitations are based on State water quality control regulations for the protection of fishing designated uses and calibrated stream model calculations (assumed from information given in rationale). The remaining limits are BPJ-based on "the plant's demonstrated performance." The basis of the monitoring conditions was not described.

treatment descriptions literally and thus avoid ambiguities. Appendix A provides a list of the abbreviations representing the treatment technologies and their corresponding term.

The limitations and monitoring conditions table is composed of five columns: the parameter name, the average limit with units, the maximum limit with units, other limits or information, the frequency for monitoring conditions, and the sample type. Generally, the elemental form or abbreviated common name has been used as the parameter name. No interpretation was made as to the form of the parameter. If the metal "chromium" was limited in the permit, "Cr" was listed in the abstract; thus, the reader of both the permit and abstract is faced with interpreting whether chromium is intended to be limited in dissolved, total recoverable, or total form. Appendix B contains a list of parameters together with the term that appears in the abstract.

The average and maximum limits columns may be titled daily or monthly or weekly, depending on the permit. The third column, designated as "other," provides an area to list pH limits or additional limits descriptors (e.g., instantaneous maximum annual average).

In recording data for any parameter, two lines are used, a top and bottom line. The mass-based limits (and reporting requirements) are placed on the top line and other limits, typically concentration, are placed on the second line. The amount of space allotted for entering units was limited to 4 characters due to space constraints. This allowed for the more common units to be entered including: for concentration — mg/l, ug/l, ng/l, and pg/l; for flow — MGD, gpd, and cfs; and for mass — kg/d or lb/d. However, by limiting this field to 4 characters, units such as #/100ml, fibers/l, and pCi/l could not fit and were therefore recorded in the "Other" column.

Fields for the frequency for monitoring and sample type were recorded in a fashion similar to that found in NPDES permits. Accurately recording frequencies and sample types often required reading additional permit conditions and footnotes, particularly when determining WET monitoring requirements and the type of composite samples to be used. To assist in consistency between recording monitoring frequencies, data was recorded as 1/year rather than one per year, one/year or modifications thereof. In some cases, information had to be shortened. For example, 24 hour flow weighted composite was shortened to 24hr fw composite. This same type of abbreviation was used for time weighted composites (i.e., 8hr tw composite). Generally, a time frame for the composite was entered where it was contained in monitoring requirements or could be gathered from definitions; otherwise, "composite" was specified with no time frame reference.

SPECIAL CONDITIONS

As the NPDES permit program matures, the need for the imposition of special conditions to achieve the goals and intent of the Clean Water Act as well as to support Agency initiatives have increased. In developing permit abstracts, an attempt has been made to provide as great a level of detail as possible in summarizing the special conditions and their basis. The special conditions which have been flagged in the "quick look" table as being present in the permit should be discussed near the end of the permit abstract under "Special Conditions Basis". An example of this is shown in Exhibit 3.

EXHIBIT 3. Special Conditions and Dates in the Permit Abstract

Special Conditions Basis:
The permit requires the implementation of baseline BMPs. Storm water discharges are authorized as long as they do not violate State water quality standards. If toxicity is suspected, the permittee may be required to develop a program for whole effluent toxicity monitoring and the preparation of a toxicity reduction evaluation plan; where specified, 90 days are provided to submit a toxicity study plan, 90 days are provided to conduct the study after approval, and 270 days are provided to implement the TRE if a TRE is required. State-specific sludge monitoring, reporting, and disposal conditions are included; a plan of operation for land application is required upon written notification. The bases of these conditions were not described.

Effective Date: 09/04/92 Expiration Date: 04/30/97 Abstract Date: 04/01/93

The fields included in the "quick look" tabled include: specific BMPs or BMP plans, storm water, sediment, water quality studies and surveys, biological studies and surveys, toxicity reduction evaluations, method detection limits and quantification levels, special monitoring, and other special conditions. Exhibit 4 tabulates these special conditions and identifies the considerations which were used in determining whether a particular special condition was included in a particular permit.

EXHIBIT 4. Considerations for Abstracting the Basis for Special Conditions

Special Condition	Considerations
BMPs ✓	• Both specific and general BMP plans where the key term BMP is used • Pollution prevention plans • Practices identified specifically as BMPs
Storm Water ✓	• Storm water pollution prevention plans • Storm water management requirements, except storm water limits
Sediment ✓	• Sediment deposition measurements • Sediment dispersal characterizations • Chemical-specific sediment analyses, except biological

EXHIBIT 4. Considerations for Abstracting the Basis for Special Conditions

WQ Survey ✓	• Dilution studies • Chemical-specific receiving stream water quality analyses • Receiving stream influent analyses, except where established to determine a net technology-based limit • Criteria development support • Effluent dispersion models
Bio-Survey ✓	• Receiving stream benthic organism evaluations • Presence/absence of certain species • Ecosystem evaluations • Proliferation of certain organisms • Bioaccumulation studies
TREs ✓	• Toxicity reduction evaluations
MDLs ✓	• Specified levels of detection or quantification during analysis • Discharge-specific MDL development requirements
Monitoring ✓	• Other chemical-specific monitoring not reported on DMRs and not listed above
Other ✓	• Ground water monitoring requirements • Miscellaneous studies not listed above • Discharge restrictions not listed above

PERMIT AND ABSTRACT DATES

Fields for the effective date, expiration date, and abstract date were also provided as part of the abstract summary. In the case where states sent draft permits, no date was entered and the program indicated "Not specified" for those blank dates. An example of these dates was shown in Exhibit 3.

CONCLUSION

It is important to adequately substantiate conditions such that they are not considered arbitrary and capricious, and are not challenged by permittees. Permit abstracts can be a strong permitting tool when the abstracts have been developed in a thorough and technically correct manner. It is hoped that this set of abstracts will be a useful reference to the permit writer.

Facility Name: Tesoro Alaska Petroleum Co. | Permit Number: AK0000841

Facility Description: Refining of crude oil to produce a variety of petroleum products | SIC Code: 2911

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	√	√

Abstract Information:
Complete: Outfalls 001a, and 001b.

Outfall: 001A | Receiving Water: Cook Inlet | Treatment: API, DAF, AerL, RBC, AerL

Amount/Components:
0.844 MGD; Non-contact cooling water, process water, GW remediation, tank draining, and stormwater.

Parameter	Limitations: Average	Limitations: Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	grab
Aromatic hydrocarbons	N/A N/A	N/A 0.400000 mg/l	Total; See below	1/month	grab
BOD5	204.000000 lb/d N/A	371.400000 lb/d N/A		1/week	24hr composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	grab
COD	1320.000000 lb/d N/A	2464.900000 lb/d N/A		1/month	grab
Cr (T)	1.290000 lb/d N/A	2.430000 lb/d N/A		1/quarter	grab
Cr+6	0.100000 lb/d N/A	0.190000 lb/d N/A		1/quarter	grab
Flow	N/A N/A	N/A Report		continuous	record
NH3-N	85.900000 lb/d N/A	190.100000 lb/d N/A		1/month	grab
O&G	48.300000 lb/d N/A	86.900000 lb/d N/A		1/week	24hr composite
PAHs	N/A N/A	N/A Report		1/month	grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 9.0 su	1/week	grab
Phenols	0.620000 lb/d N/A	1.340000 lb/d N/A		1/week	grab
Sulfide	1.080000 lb/d N/A	2.420000 lb/d N/A			
TPH	N/A N/A	N/A 10.000000 mg/l		1/month	grab
TSS	166.300000 lb/d N/A	261.400000 lb/d N/A		1/month	grab

Limitations/Monitoring Basis:
Chronic testing is required during May, August, November and February. Acute testing is required in May and August. Where Acute and Chronic testing are required in the same month, the tests must be performed on split samples. The specific protocols are provided in the permit. The permit also requires that there be no discharge of floating solids, visable foam, or oily wastes which produce a sheen on the surface of the receiving water. The limits for pH are WQ-based and ensure compliance with State WQS. All other limits are a combination of BPJ and ELGs (40 CFR 419). Historical BPJ limits were determined to be more stringent than ELGs for the older portion of the facility and were

Facility Name: Tesoro Alaska Petroleum Co.	Permit Number: AK0000841
Facility Description: Refining of crude oil to produce a variety of petroleum products	SIC Code: 2911

retained. For more recent expansions, ELGs were utilized. The resultant final limits are a mathematical combination of the BPand ELG limits. The permit also defines "Total aromatic hydrocarbons" as the summation of aromatic hydrocarbons and PAH. Monitoring requirements are based on the Agency's determination of the minimum necessary to adequately monitor plant performance. Quarterly toxicity testing for chronic toxicity is required using one of the following species: purple sea urchin, green sea urchin, or sand dollar. Acute toxicity testing must be conducted on juvenile salmonids at a frequency of 2 per year.

Outfall: 001B | Receiving Water: Cook Inlet | Treatment: HT, API, DAF

Amount/Components:
Unspecified; itermittant discharge from ballast treatment facility. Combines with 001a prior to discharge.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Aromatic hydrocarbons	N/A N/A	N/A 0.400000 mg/l	Total; See below	1/month	grab
BOD5	0.210000 N/A	0.400000 N/A	Units: lb/1000 gallons	1/quarter	grab
COD	2.000000 N/A	3.900000 N/A	Units: lb/1000 gallons	1/quarter	grab
Flow	N/A N/A	N/A Report		continuous	record
O&G	0.042000 N/A	0.084000 N/A	Units: lb/1000 gallons	1/week	24hr composite
PAHs	N/A N/A	N/A Report		1/month	grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 9.0 su	1/week	grab
TPH	N/A N/A	N/A 10.000000 mg/l		1/month	grab
TSS	0.170000 N/A	0.250000 N/A	Units: lb/1000 gallons	1/quarter	grab

Limitations/Monitoring Basis:
Limits for this outfall are carried over from the previous permit and are BPJ-based. The existing limits are more stringent than BAT and BCT limits for this type of discharge, and are therefore retained. The permit also requires that there be no discharge of floating solids, visible foam, or oily wastes which produce a sheen on the surface of the receiving water. The permit also defines "Total aromatic hydrocarbons" as the summation of aromatic hydrocarbons and PAH. Monitoring requirements are based on the Agency's determination of the minimum necessary to adequately monitor plant performance.

Special Conditions Basis:
A special condition is included which requires additional monitoring under specified circumstances. The permit requires that when "catalyst is regenerated in the reformer unit, the permittee shall monitor chlorinated dibenzodioxins (CDD), chlorinated dibenzofurans (CDF), total organic halides (TOX) and adsorbable organic halogen (AOX) in the waste stream connected to the regeneration unit". The specific requirements for this testing are also provided. This requirement is BPJ-based, in consideration of results from Canadian studies showing that these pollutants were present in similar discharges. In addition, if WET testing indicates toxicity, the permittee must perform a TIE and TRE. Specific conditions and requirements for TIE and TRE are included.

Effective Date: 04/18/91 Expiration Date: 04/17/96 Abstract Date: 06/11/93

Facility Name: ARCO Alaska, Inc.- Prudhoe Bay | Permit Number: AK0029840

Facility Description: Seawater treatment used in groundwater injection to extract crude oil. | SIC Code: 1311

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	√	√	√	-	-	√	-

Abstract Information:
Complete: Outfalls 001, 002, and 003.

Outfall: 001 | Receiving Water: Prudhoe Bay | Treatment: Not described.

Amount/Components:
12.4 MGD (max); Discharge from seawater treatment system including seawater strainer and filter backwash.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	9.000000 MGD N/A	12.400000 MGD N/A		continuous	record
pH	N/A N/A	N/A Report	Between 6.0 SU and 9 .0 SU	See below	See below
Temp.	N/A N/A	N/A Report	See below	See below	See below
TRC	N/A 50.000000 ug/l	N/A 150.000000 ug/l	See below	6/day	grab
TSS	N/A Report	N/A Report		1/week	grab

Limitations/Monitoring Basis:
Flow limits are BPJ and are used to ensure that modeling assumptions are valid. TSS requirements are intended to evaluate impact of the discharge. The permit further states that the TSS concentration shall be estimated on the basis of intake and output concentrations. Limits were not deemed necessary. The limits for TRC are established on a seasonal basis, dependent on ice cover, and include a monthly average and daily maximum concentrations for each season. The limits shown above apply during the "open-water" season (July 1 through September 30). The limits for the "under-ice" season, are 320 ug/l Daily Max., and 150ug/l Monthly Average. The TRC limits were originally BPJ-based, and have now been shown to be BAT for this facility. The permit requires that the temperature of the discharge not exceed 10 degrees celsius above the weekly average or daily maximum ambient temperature. This limit is WQ-based to ensure compliance with State WQS. Monitoring for temp. may be performed by continuous recording or daily grab samples. The specific protocols for temp. monitoring are included in the permit. The pH limit shall not vary more than 0.5 su from natural conditions. The pH limit is WQ-based to ensure compliance with State WQS. Monitoring may be performed by a continuous recording device or by daily grab samples. In addition to the above requirements, the permit contains several BPJ conditions as follow: Discharge depth must be 3 m below mean lower low water level; limitations and conditions for the use of glutaraldehyde (used for bacteria control); limitations and conditions on the discharge of spent "water clarifying agents".

Outfall: 002 | Receiving Water: Prudhoe Bay | Treatment: Not discussed.

Amount/Components:
10.0 MGD (max); Return flow or marine life captured incedentally by seawater intake system.

Parameter	Limitations: Average	Limitations: Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Temp.	N/A N/A	N/A N/A	See below	1/week	

Limitations/Monitoring Basis:
Temp. limit is established as "Weekly average effluent temperature shall not exceed 1 degree celsius above ambient". The temp. limit is WQ-based to ensure compliance with State WQS. The permit also requires weekly flow monitoring. The sample type is not specified. Results must be reported as average monthly, and daily maximum flows. Flow monitoring requirements are included for informational purposes.

Facility Name: ARCO Alaska, Inc.- Prudhoe Bay	Permit Number: AK0029840
Facility Description: Seawater treatment used in groundwater injection to extract crude oil.	SIC Code: 1311
Outfall: 003 | Receiving Water: Prudhoe Bay	| Treatment: AS

Amount/Components:
0.050 MGD (max); Effluent from sewage treatment plant.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 30.000000 mg/l	N/A 60.000000 mg/l	45 mg/l Weekly Average	3/week	grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	5/month	grab
Flow	N/A N/A	50000.000000 gpd N/A		continuous	record
pH	N/A N/A	N/A Report	Between 6.5 su and 8.5 su	1/day	grab
TRC	N/A 0.500000 mg/l	N/A 1.000000 mg/l		1/day	grab
TSS	N/A 30.000000 mg/l	N/A 60.000000 mg/l	45 mg/l Weekly Average	3/week	grab

Limitations/Monitoring Basis:
The basis of the flow requirement is not described. The weekly and monthly average TSS and BOD5 limits are based on BCT standards for secondary treatment of domestic wastewater. Daily maximum limits are based on State requirements. In addition to the above limits for BOD5 and TSS, permit requires that "the monthly average percent removal of TSS and BOD5 shall not be less than 85 percent". This requirement is also based on BCT for secondary treatment. The FC limits are BPJ-based and ensure that State WQS are met. The TRC limits are BPJ-based using BAT as the standard. The pH limits are based on BCT for secondary treatment of domestic wastewater, and ensure compliance with State WQS.

Special Conditions Basis:
In addition to the specific limitations above, the permit contains several general discharge limitations, including: A prohibition on the discharge of any constituents other than those listed in the permit above at concentrations exceeding water quality standards or criteria; a prohibition on the discharge of diesel oil, halogenated phenolic compounds, trisodium nitrilotriacetic acid, sodium chromate or sodium dichromate; a prohibition on the discharge of floating solids or visible foam in other than trace amounts. Additionally, discharges shall not cause a film, sheen, or discoloration on the surface or floor of the water body or adjoining shorelines; and a prohibition on the discharge of surfactants, dispersants and detergents, except as necessary to comply with the safety requirements of OSHA and the Minerals Management Service. The permit also requires that effective 80 days after the effective date of the permit, an effluent sample shall be taken annually from the combined discharge and analyzed for all halogentated compounds listed as priority pollutants. Specific monitoring and reporting conditions are included. The permit also requires the development of a BMP Program to prevent or minimize the dishcarge of pollutants. Specific content requirements of the BMP Plan are provided. The permit also includes specific "Environmental Monitoring Requirements". this requires implementation of an environmental monitoring plan in years two and four of the permit and includes study of WQ impacts, sediment impacts, and biological impacts of the discharge. Specific content and reporting requirements are provided. The requirements for clarifying agents include acute and chronic toxicity testing and BMPs. Specific protocols for toxicity testing are included.

Effective Date: 12/31/92	Expiration Date: 12/31/97	Abstract Date: 06/14/93

Facility Name: Western Gold Exploration & Min | Permit Number: AK0043192

Facility Description: Offshore placer mining using a bucket-ladder dredge mining vessel | SIC Code: 1041

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	√	√	√	-	√	√	-

Abstract Information:
Complete/Outfalls 001, 002, 003, 004, and 005.

Outfall: 001 | Receiving Water: Norton Sound | Treatment: Not described.

Amount/Components:
Unspecified/discharge from dredge-ladder buckets.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
SS	N/A 21.000000 m3/h	N/A N/A	42 m3/hr inst. max.	4/month	estimate

Limitations/Monitoring Basis:
Limit for SS is based on guidelines developed for dredge and fill operations under Section 404 of the CWA. Limit also ensures that BCT is used by permittee. Monitoring requirements are not discussed.

Outfall: 002 | Receiving Water: Norton Sound | Treatment: Not described.

Amount/Components:
Unspecified/discharge from Trommel Screen Rock Chute.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
SS	N/A N/A	N/A Report	Units: m3/hr	4/month	estimate

Limitations/Monitoring Basis:
The SS monitoring requirements are in two parts; one for the "large fraction" and one for the "small fraction". The large fraction is defined as particles with size greater than 1.9 cm, and the small fraction consists of particles less than or equal to 1.9 cm. See basis for Outfall 001

Outfall: 003 | Receiving Water: Norton Sound | Treatment: Not described.

Amount/Components:
56 MGD (max)/Process tailings launders.

Parameter	Limitations: Monthly Average	Limitations: Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
As (TR)	N/A 234.000000 ug/l	N/A N/A	1,242 ug/l inst. max	4/month	grab
Cu (TR)	N/A 52.200000 ug/l	N/A N/A	52.2 ug/l inst. max.	4/month	grab
Flow	N/A 45.000000 MGD	N/A 56.000000 MGD		1/day	estimate
Hg (TR)	N/A 0.450000 ug/l	N/A N/A	37.8 ug/l inst. max.	4/month	grab
Ni (TR)	N/A 149.400000 ug/l	N/A N/A	1,350 ug/l inst. max	4/month	grab
Pb (TR)	N/A 100.800000 ug/l	N/A N/A	2,520 ug/l inst. max	4/month	grab

Facility Name: Western Gold Exploration & Min | Permit Number: AK0043192

Facility Description: Offshore placer mining using a bucket-ladder dredge mining vessel | SIC Code: 1041

SS	N/A N/A	N/A Report	Units: m3/hr	4/month	estimate
TSS	N/A 15000.000000 mg/l	N/A N/A	30,000 mg/l inst. max.	1/day	grab

Limitations/Monitoring Basis:
The flow limits are WQ-based to ensure compliance with State WQS for turbidity at the edge of the mixing zone. The SS requirements apply only to the "small fraction" (<1.9 cm), and are a combination of WQ and technology-based limits. The SS limits ensure that the State WQS for turbidity is met and that BAT is applied to the wastestream. The TSS requirements apply only to the "combination of silt and clay particles," and are WQ-based. The toxic metals limits ensure that State WQS are not exceeded, and are, therefore, WQ-based. Monitoring for all metals must provide analyses for both "total recoverable" and "dissolved" fractions. EPA may modify this requirement if a relationship between these fractions can be established. Minimum detection levels for the metals analyses are also specified. A requirement is also included which states that the average daily discharge of process tailings shall not exceed 10% solids, of which the daily average fines content shall not exceed 25% and the maximum fines content shall not exceed 60%. If these requirements are exceeded, the permittee must notify EPA and ADEC within 24 hours, and immediately take steps to correct the problem.

Outfall: 004 | Receiving Water: Norton Sound | Treatment: Not described.

Amount/Components:
0.34 MGD (max)/Gold Table Sluice Tailings Launder

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Maximum	Other	Frequency	Sample Type
Cu	N/A 52.200000 ug/l	N/A N/A	52.2 ug/l inst. max.	4/month	grab
Flow	N/A N/A	0.340000 N/A MGD		4/month	estimate
Hg	N/A 0.450000 ug/l	N/A N/A	37.8 ug/l inst. max.	4/month	grab
TSS	N/A 15000.000000 mg/l	N/A N/A	30,000 mg/l inst. max.	4/month	grab

Limitations/Monitoring Basis:
Limits established are WQ-based to ensure compliance with State WQS. Monitoring for all metals must provide analyses for both "total recoverable" and "dissolved" fractions. EPA may modify this requirement if a relationship between these fractions can be established. Minimum detection levels for the metals analyses are also specified. The percent prohibits the discharge of substances removed during processing via the sluice tailings launder.

Outfall: 005 | Receiving Water: Norton Sound | Treatment: Not described.

Amount/Components:
1.8 MGD (max)/Non-contact cooling water from engines.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	1.800000 N/A MGD		4/month	estimate
Temp.	N/A N/A	N/A Report	Max. 10 deg above ambient	4/month	instaneous

Limitations/Monitoring Basis:
In addition to the above requirements, there is a narrative requirement which states: "Surface water and shorelines within 1,000 meters of the mining vessel shall be virtually free from floating oil, film, sheen or discoloration. Monitoring shall be by visual observation on a daily basis". The flow and temp. requirements are WQ-based to ensure compliance with State WQS.

Special Conditions Basis:
The permit contains a number of "Other General Requirements" including: A requirement that all "black sands" must be taken to onshore facilities for processing; a establishment of mixing zone dimensions, a requirement establishing a minimum discharge distance from the shoreline in accordance with coast zone management plans; a requirement prohibiting discharge within specific distances of salmon streams under certain conditions; a requirement to

Facility Name: Western Gold Exploration & Min	Permit Number: AK0043192
Facility Description: Offshore placer mining using a bucket-ladder dredge mining vessel	SIC Code: 1041

discharge SS to the area from which they were dredged; a requirement regarding the allowable type and operation of the intake structure; and, a requirement to record the number and types of marine life entrained bythe dredging process. The permit also contains special conditions for: A "Quality Assurance/Quality Control Plan" to be developed by the permittee; a "Best Management Practices Plan" to be developed by the permittee to minimize the potential for release of pollutants; an "Environmental Monitoring Program" which requires the permittee to conduct a bathymetric survey, evaluate water quality impacts, evaluate sediment impacts, and evaluate biological impacts in the dredging area. The environmental monitoring program contains specific development, implementation, and reporting requirements for each program element. The test methods and detection levels are specified for metals analyses at outfall 003 and 004. The permit requires the permittee to conduct a bioaccumulation study of trace metals in the receiving waters.

Effective Date: 11/23/90	Expiration Date: 11/24/95	Abstract Date: 06/10/93

Facility Name: Westward Seafoods, Inc., Dutch | **Permit Number:** AK0049786

Facility Description: Processing of seafoods, including finfish, crab, fishmeal, and Surimi. | **SIC Code:** 2092

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	-	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	√	√	√	-	-	√	-

Abstract Information:
Complete; Outfalls 001,002,003,004,005, and 006. Only Outfall 001 discharges to the receiving water, the other outfalls represent internal process wastestreams

Outfall: 001 | **Receiving Water:** Captains Bay | **Treatment:** Scr

Amount/Components:
Unspecified/All process wastestreams including fish transport water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		1/week	record
pH	N/A N/A	N/A Report	Between 6.5 su and 8 .5 su	1/week	grab
TRC	N/A N/A	N/A Report mg/l		1/week	grab

Limitations/Monitoring Basis:
The final pH limit is based on protection of Alaska WQS. Monitoring frequencies are based on the Agency's determination of the minimum sampling required to adequately monitor facility performance. Flows must be recordedduring monitoring events. At least one half of the TRC samples must be taken during or immediately after the plant sanitation process (chlorine is not used for wastewater treatment). The status of the waste handling system must be recorded and made available to EPA upon request.

Outfall: 002 | **Receiving Water:** Internal outfall via 001 | **Treatment:** Scr

Amount/Components:
Unspecified/Wastestream from finfish processing.

Parameter	Limitations: Average	Limitations: Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		1/week	record
O&G	N/A N/A	N/A Report mg/l	See below	1/week	grab
TSS	N/A N/A	N/A N/A	See below	1/week	24 hr fw comp

Limitations/Monitoring Basis:
Limits for TSS and O&G are based on applicable ELGs (40 CFR 408) and BPJ. Permit incorporates applicable production-based limits for the types of finfish processed. The production-based limits for salmon, halibut and herring are from ELGs. Production limits for "bottomfish" are not applicable to Alaskan processors, but are included based on BPJ. Permittee must calculate the allowable mass-based limit based on actual production rate at time of monitoring. An attachment to the permit provides instruction on how limits should be calculated. Flow must be recorded during monitoring events. Monitoring results must be included on DMRs as both concentrations and mass loadings.

Facility Name: Westward Seafoods, Inc., Dutch | Permit Number: AK0049786

Facility Description: Processing of seafoods, including finfish, crab, fishmeal, and Surimi. | SIC Code: 2092

Outfall: 003 | Receiving Water: Internal outfall via 001 | Treatment: Not described

Amount/Components:
Unspecified/Wastestream from crab processing.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/week	record

Limitations/Monitoring Basis:
Limits are based on ELGs (40 CFR 408) for remote facilities in Alaska. In addition to flow monitoring, the following requirements are included: (1.) No pollutants may be discharged with exceed 0.5 inch in any dimensions; (2). All grinding equipment shall be maintained in operating condition at all times, (3.) All grinding equipment installed shall be actively used prior to discharging during crab processing activities; (4.) Grinding equipment may not be modified without prior approval. The permit prohibiting the accumulation of crab processing wastes on the bottom of the receiving water to an extent greater than 2 acres in size is water quality-based.

Outfall: 004 | Receiving Water: Internal outfall via 001 | Treatment: Not described

Amount/Components:
Unspecifed/Wastestream from fishmeal processing, including evaporator condensate, and scrubber. Does not include stickwater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	3.800000 N/A	6.700000 N/A	Units: lb/1000 lb	1/week	grab
Flow	N/A N/A	N/A Report MGD		1/week	record
O&G	0.760000 N/A	1.400000 N/A	Units: lb/1000 lb	1/week	grab
pH	N/A N/A	N/A N/A		1/week	grab
TSS	1.500000 N/A	3.700000 N/A	Units: lb/1000 lb	1/week	grab

Limitations/Monitoring Basis:
Limitations on the non-stickwater discharges are based on the BPJ using the NSPS ELGs of 40 CFR 408.150. Basis of pH limit was not discussed. Flow must be recorded during monitoring events.

Outfall: 005 | Receiving Water: Internal outfall via 001 | Treatment: Not described

Amount/Components:
Unspecified/Wastestream from Surimi processing.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/week	record
O&G	N/A N/A	N/A Report mg/l		1/week	record
TSS	N/A N/A	N/A Report mg/l		1/week	24hr fw composite

Limitations/Monitoring Basis:
In addition to the above monitoring requirements, a limit is included which prohibits pollutants which exceed 5 mm in any dimension. This limit is based on BPJ considering available treatment technologies for this type of wastestream. Flow must be recorded during monitoring events.

Facility Name: Westward Seafoods, Inc., Dutch | Permit Number: AK0049786

Facility Description: Processing of seafoods, including finfish, crab, fishmeal, and Surimi. | SIC Code: 2092

Outfall: 006 | Receiving Water: Internal outfall via 001 | Treatment: None

Amount/Components:
Unspecified/Stickwater wastestream from fishmeal processing.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
BOD5	N/A N/A	N/A Report mg/l		1/week	grab
Flow	N/A N/A	N/A Report MGD		1/day	continuous
TSS	N/A N/A	N/A Report mg/l		1/week	grab

Limitations/Monitoring Basis:
In addition to the above monitoring requirements, a requirement to recover a minimum of 17 percent of the stickwater is also included. This requirement is based on BPJ considering plant performance. Flow must be recorded during monitoring events.

Special Conditions Basis:
Permit requires an "effluent characterization study" of outfall 001 (final effluent). The study will determine levels of "Immediate Dissolved Oxygen Demand" (IDOD), BOD5, BOD10, BOD15, and BOD20. The study must also be conducted during periods of stickwater discharge and Jun-Oct 1991. Permit also requires "Dive Surveys" to be conducted to determine the condition and extent of the waste pile generated by the discharge requirements for thedive survey are also included. Permit also requires "Side Scan Sonar Monitoring" of the total areal extent of the waste pile to determine compliance with the 2 acre zone of deposit (Outfall 003). Monitoring shall be annual in the month of June and shall be reported in accordance with specific permit requirements. Permit also requires a "Dissolved Oxygen Monitoring Program." Program requires monitoring of receiving water for DO, pH, salinity, temperature, BOD5, BOD10, BOD15, and BOD20 at varying depth twice monthly during the first year of the permit, at several locations and depths, in accordance with specific requirements. After the first year monitoriring reduced to twice yearly. Permits also requires "Drouge Surveys" to be conducted in the vicinity of the outfall (001) once per month beween June and October 1991. The specific requirements for these surveys are included in the permit. Permits also requires a one year "Bay-wide Circulation Study" in accordance with specific conditions contained in the permit including a requirement to use at least three current meter stations. Permit also requires permittee to assist in completion of "Harbor Management Study". Permit also requires permittee to make weekly visual inspections of the shoreline and water surface for evidence of seafood waste accumulation, floating solids, garbage, grease, foam, and visible oil. Permit also requires development of a BMP plan to prevent or minimize the amount of finfish wastes passing through the 5 mm screening system. Specific requirements for this plan are included. Permit also requires permittee to report specific production data. Permit also requires permittee to develop a "Stickwater Recovery Plan" to reduce discharges of stickwater to the extent possible. The plan must be submitted within six months and implemented within two years of the effective date of the permit. Permit requires notification of ADEC Director if certain production rates are exceeded. Permit requires special waste handling in the event of "unforeseen breakdown" of fish meal operations. Permit requires outfall 001 to be located at specific depth and distance from shore.

Effective Date: 04/22/91 | Expiration Date: 04/22/96 | Abstract Date: 06/09/93

Facility Name: UOP - Molecular Sieve Plant | Permit Number: AL0002666

Facility Description: Manufacturer of molecular sieve adsorbents and catalysts | SIC Code: 2819

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	√	-	-	-	√

Abstract Information:
Complete; Outfall 001 includes the combined discharge limits for 001 and 002. Outfalls 001A and 001B have been created for abstracting purposes.

Outfall: 001A | Receiving Water: Chickasaw Creek via Canal | Treatment: Not described.

Amount/Components:
Unspecified amount from combined outfalls 001 and 002, consisting of process wastewaters, cooling tower blowdown, and boiler blowdown.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A 10.000000 %	Units: percent mortality	1/quarter	grab
Ag (TR)	Report lb/d N/A	Report lb/d N/A	monitor when in use	1/week	composite
Ba (T)	25.000000 ppd N/A	50.000000 ppd N/A	monitor when in use	1/week	composite
Br	1107.000000 ppd N/A	2213.000000 ppd N/A	monitor when in use	1/day	composite
Chloride	Report lb/d N/A	Report lb/d N/A		1/month	composite
Co (T)	1.700000 ppd N/A	3.400000 ppd N/A	monitor when in use	1/week	composite
Cr (TR)	4.100000 ppd N/A	8.200000 ppd N/A	monitor when in use	1/week	composite
Cu (TR)	Report ppd N/A	Report ppd N/A	monitor when in use	1/week	composite
Fl	150.000000 ppd N/A	180.000000 ppd N/A	monitor when in use	1/day	composite
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
Metals (rare earth)	245.000000 ppd N/A	368.000000 ppd N/A	monitor when in use	1/week	composite
Mn (T)	8.900000 ppd N/A	17.800000 ppd N/A	monitor when in use	1/week	composite
Mo	20.000000 lb/d N/A	40.000000 lb/d N/A	monitor when in use	1/week	composite
N (T)	200.000000 lb/d N/A	400.000000 lb/d N/A		1/week	composite
NH3-N	Report lb/d N/A	Report lb/d N/A		1/week	composite
Ni (TR)	5.000000 ppd N/A	10.000000 ppd N/A	monitor when in use	1/week	composite
P (T)	25.000000 ppd N/A	50.000000 ppd N/A	monitor when in use	1/week	composite
Pd (T)	0.800000 ppd N/A	1.600000 ppd N/A	monitor when in use	1/week	composite

Facility Name: UOP - Molecular Sieve Plant | Permit Number: AL0002666

Facility Description: Manufacturer of molecular sieve adsorbents and catalysts | SIC Code: 2819

pH	N/A N/A	9.000000 su N/A	6.0 su, daily min.	3/day	grab
Pt	0.800000 lb/d N/A	1.600000 lb/d N/A	monitor when in use	1/week	composite
S	Report ppd N/A	Report ppd N/A	monitor when in use	1/week	composite
SO4	Report ppd N/A	Report ppd N/A		1/month	composite
TDS	Report ppd N/A	Report ppd N/A		1/month	composite
TSS	2000.000000 ppd N/A	4000.000000 ppd N/A		1/week	composite
V (T)	3.300000 ppd N/A	6.600000 ppd N/A	monitor when in use	1/week	composite
W (T)	20.000000 ppd N/A	40.000000 ppd N/A	monitor when in use	1/week	composite
Zn (TR)	12.500000 ppd N/A	25.000000 ppd N/A	monitor when in use	1/week	composite

Limitations/Monitoring Basis:
Outfall 001A represents limitations and monitoring conditions effective through 4/3/93. ELGs have not been proposed for this manufacturing category. Pollutants of concern for this industry were identified from the past permit and ZC applications. WQ-based limits were developed in accordance with State policy for the stream classification agricultural and industry. State policy specifies consideration of alternating and human health criteria only, and for Ni, Cr, Ag, Cu, Mn, and Zn. The more conservative of fresh water and salt water criteria were used because the discharge is tidally influenced. The total metal standard was adjusted to take into account the fact that only the dissolved portion of the metal causes toxicity. Monthly average limitaitons were determined as half the daily maximum for all parameters except soluble fluoride. The basis of the acute WET limit was not described. In the absence of water quality standards, exisiting limits for the remaining parameters were continued. Acute WET testing shall be conducted on a specific IWC of 5% effluent tests performed in accordance with EPA guidance manual procedures. The monitoring requirements for all parameters were continued from the previous permit. The permit specifies that flow and pH be monitored separately for Outfalls 001 and 002, while all other parameters are monitored as a combined discharge.

Outfall: 001B | Receiving Water: Chickasaw Creek via Canal | Treatment: Not described.

Amount/Components:
Unspecified amount from combined outfalls 001 and 002, consisting of process wastewaters, cooling tower blowdown, and boiler blowdown.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A 10.000000 %	Units: percent mortality	1/quarter	grab
Ag (TR)	0.130000 ppd N/A	0.260000 ppd N/A	monitor when in use	1/week	composite
Ba (T)	25.000000 ppd N/A	50.000000 ppd N/A	monitor when in use	1/week	composite
Br	1107.000000 ppd N/A	2213.000000 ppd N/A	monitor when in use	1/day	composite
Chloride	Report lb/d N/A	Report lb/d N/A		1/month	composite
Co (T)	1.700000 ppd N/A	3.400000 ppd N/A	monitor when in use	1/week	composite
Cr (TR)	4.100000 ppd N/A	8.200000 ppd N/A	monitor when in use	1/week	composite

Facility Name: UOP - Molecular Sieve Plant | Permit Number: AL0002666

Facility Description: Manufacturer of molecular sieve adsorbents and catalysts | SIC Code: 2819

Cu (TR)	0.770000 ppd N/A	1.540000 ppd N/A	monitor when in use	1/week	composite
Fl	150.000000 ppd N/A	180.000000 ppd N/A	monitor when in use	1/day	composite
Flow	Report MGD N/A	Report MGD N/A		continuous	recorder
Metals (rare eart h)	245.000000 ppd N/A	368.000000 ppd N/A	monitor when in use	1/week	composite
Mn (T)	8.900000 ppd N/A	17.800000 ppd N/A	monitor when in use	1/week	composite
Mo	20.000000 lb/d N/A	40.000000 lb/d N/A	monitor when in use	1/week	composite
N (T)	200.000000 lb/d N/A	400.000000 lb/d N/A		1/week	composite
NH3-N	Report lb/d N/A	Report lb/d N/A		1/week	composite
Ni (TR)	5.000000 ppd N/A	10.000000 ppd N/A	monitor when in use	1/week	composite
P (T)	25.000000 ppd N/A	50.000000 ppd N/A	monitor when in use	1/week	composite
Pd (T)	0.800000 ppd N/A	1.600000 ppd N/A	monitor when in use	1/week	composite
pH	N/A N/A	N/A 9.000000 su	6.0 su, daily min	3/day	grab
Pt (T)	0.800000 ppd N/A	1.600000 ppd N/A	monitor when in use	1/week	composite
S	Report ppd N/A	Report ppd N/A	monitor when in use	1/week	composite
SO4	Report ppd N/A	Report ppd N/A		1/month	composite
TDS	Report ppd N/A	Report ppd N/A		1/month	composite
TSS	2000.000000 ppd N/A	4000.000000 ppd N/A		1/week	composite
V (T)	3.300000 ppd N/A	6.600000 ppd N/A	monitor when in use	1/week	composite
W (T)	20.000000 ppd N/A	40.000000 ppd N/A	monitor when in use	1/week	composite
Zn (TR)	12.500000 ppd N/A	25.000000 ppd N/A	monitor when in use	1/week	composite

Limitations/Monitoring Basis:
Outfall 001B represents limitations and monitoring conditions effective beginning 4/3/94. The basis is the same as that described at Outfall 001A. WQ-based limits are effective for Cu and Ag as of 4/3/94, by which time a new treatment process should be installed and operational.

Special Conditions Basis:
The permit requires the development within 6 months and implementation within 18 months of a BMP plan designed to minimize or reduce the potential for contaminated storm water runoff. The permit also requires the development of BMP and SPCC plans to contain process liquids and solids. In accordance with coastal regulations, the permit requires that the facility conduct discharge information zone (DIZ) monitoring. Should the results of DIZ monitoring indicate biological damage has occurred at the perimeter or outside a 400 ft radius centered at the discharge site, the permittee will be required to submit a plan to correct and eliminate biological damage caused by the discharge. The permit contains a biocide clause to ensure that the Department reviews the biocides used in the cooling or boiler systems. The use of biocides containing tributyl tin, zinc, and chromium is prohibited based on data indicating that these compounds are toxic at low concentrations. A compliance schedule is set forth which requires: (1) the submittal of the DIZ study within 120 days; (2) develop a BMP plan within6 months; (3) implement

Facility Name: UOP - Molecular Sieve Plant		Permit Number: AL0002666
Facility Description: Manufacturer of molecular sieve adsorbents and catalysts		SIC Code: 2819
the BMP plan within 18 months; and (4) comply with Cu (Tr) and Ag (TR) limitations by 4/3/94. Reporting within 14 days of milestone dates as to schedule compliance is also required. Other than set out above, the basis of these conditions were not described.		
Effective Date: 10/01/92	Expiration Date: 09/30/97	Abstract Date: 04/07/93

Facility Name: West Point Pepperell Opelika | Permit Number: AL0002968

Facility Description: Manufacturer of cotton/polyester sheeting | SIC Code: 2262

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	-	-

Abstract Information:
Complete; Outfalls 001A and 001B were created for abstract purposes and represent summer and winter limits, respectively.

Outfall: 001A | Receiving Water: Pepperell Branch | Treatment: Not described.

Amount/Components:
An average of 2.75 MGD of process wastewater, boiler blowdown, and noncontact cooling water

Parameter	Limitations: monthly Average	Limitations: daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A 10.000000 %	Units: % mort., see below	1/quarter	grab
BOD5	344.000000 ppd N/A	688.000000 ppd N/A		1/day	24hr fw composite
COD	17940.000000 ppd N/A	35880.000000 ppd N/A		1/day	24hr fw composite
Color	N/A Report ADMI	N/A 300.000000 ADMI		1/week	24hr fw composite
Cr (T)	21.300000 ppd N/A	42.600000 ppd N/A		1/week	24hr fw composite
Cu (TR)	N/A 19.820000 ug/l	N/A 39.640000 ug/l		2/year	24hr fw composite
DO	N/A N/A	N/A N/A	6.0 mg/l daily min.	continuous	recorder
Flow	N/A Report MGD	N/A Report MGD		continuous	totalizer
NH3-N	22.900000 lb/d N/A	45.800000 lb/d N/A		1/week	24hr fw composite
Pb (TR)	N/A 56.550000 ug/l	N/A 113.100000 ug/l		2/year	24hr fw composite
pH	N/A N/A	8.500000 su N/A	6.0 su, daily min.	1/day	grab
Phenol	21.300000 lb/d N/A	42.600000 lb/d N/A		1/week	grab
Sulfide	42.600000 lb/d N/A	85.200000 lb/d N/A		1/week	grab
Temp.	N/A N/A	N/A 90.000000 F		1/day	grab
TSS	3791.400000 ppd N/A	7582.800000 ppd N/A		1/day	24hr fw composite
Zn (TR)	N/A 167.270000 ug/l	N/A 334.550000 ug/l		2/year	24hr fw composite

Limitations/Monitoring Basis:
This outfall represents summer limits effective from May through Nov. ELGs contained in 40 CFR Part 410, (Subpart D) were used to determine the limits for COD, TSS, S, phenol, and Cr (T). Monthly averages for BOD5 and NH3-N were determined based on WQSs and modeling performed by EPA; daily maximums were determined using a factor of 2.0 times the daily avg., consistent with other industrial permits. pH and DO limits are in accordance with State WQSs for A & I (agriculture and industry) designated uses. Temperature was limited due to the presence of boiler blowdown and

Facility Name: West Point Pepperell Opelika | Permit Number: AL0002968

Facility Description: Manufacturer of cotton/polyester sheeting | SIC Code: 2262

cooling water in the discharge; the limitation's basis was not described. The ADMI color limit was BPJ-based in accordance with best engineering judgement of pollutant treatability, and practices at similar facilities. The limits for Cu, Pb, and Zn were based on average instream hardness and freshwater acute WQ criteria equations in ADEM Admin Code R 335-6-10-.07(1)(a)to protect designated uses (A & I). The basis of the acute WET limit was not described. WET testing is to be conducted on an undiluted sample, test shall be performed in accordance with EPA guidance manual procedures. The basis of the monitoring requirements was not provided.

Outfall: 001B | Receiving Water: Pepperell Branch | Treatment: Not described.

Amount/Components:
An average of 2.75 MGD of process wastewater, boiler blowdown, and noncontact cooling water

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A 10.000000 %	Units: % mort., see below	1/quarter	grab
BOD5	516.000000 ppd N/A	1032.000000 ppd N/A		1/day	24hr fw composite
COD	17940.000000 ppd N/A	35880.000000 ppd N/A		1/day	24hr fw composite
Color	N/A Report ADMI	N/A 300.000000 ADMI		1/week	24hr fw composite
Cr (T)	21.300000 ppd N/A	42.600000 ppd N/A		1/week	24hr fw composite
Cu (TR)	N/A 19.820000 ug/l	N/A 39.640000 ug/l		2/year	24hr fw composite
DO	N/A N/A	N/A N/A	6.0 mg/l daily min.	continuous	recorder
Flow	N/A Report MGD	N/A Report MGD		continuous	totalizer
NH3-N	34.400000 lb/d N/A	68.700000 lb/d N/A		1/week	24hr fw composite
Pb (TR)	N/A 56.550000 ug/l	N/A 113.100000 ug/l		2/year	24 hr composite
pH	N/A N/A	8.500000 su N/A	6.0 su, daily min	1/day	grab
Phenols	21.300000 ppd N/A	42.600000 ppd N/A		1/week	grab
Sulfide	42.600000 lb/d N/A	85.200000 lb/d N/A		1/week	grab
Temp.	N/A N/A	90.000000 F N/A		1/day	grab
TSS	3791.400000 ppd N/A	7582.800000 ppd N/A		1/day	24hr fw composite
Zn (TR)	N/A 167.270000 ug/l	N/A 334.550000 ug/l		2/year	24hr fw composite

Limitations/Monitoring Basis:
This outfall represents winter limits effective Dec. through Apr. ELGs contained in 40 CFR Part 410, (Subpart D) were used to determine the limits for COD, TSS, Sulfide, Phenol, and Cr (T). Monthly averages for BOD5 and NH3-N were determined based on WQSs and modeling performed by EPA; daily maximums were determined using a factor of 2.0, consistent with other industrial permits. Seasonal variations were developed using a factor of 1.5 times the summer limitations, as recommended by EPA Region 4. No other limitations were changed to reflect seasonal variations. pH and DO limits are in accordance with State WQSs for A & I (agriculture and industry) designated uses. Temperature was limited due to the presence of boiler blowdown and cooling water in the discharge; the limitation's basis was not described. The ADMI color limit was BPJ-based in accordance with best engineering judgement of pollutant treatability, and practices at similar facilities. The limits for Cu, Pb, and Zn were based on average instream hardness and freshwater acute WQ criteria equations in ADEM Admin Code R 335-6-10-.07(1)(a) to protect designated

Facility Name: West Point Pepperell Opelika	Permit Number: AL0002968
Facility Description: Manufacturer of cotton/polyester sheeting	SIC Code: 2262

uses (A & I). The basis of the acute WET limit was not described. WET testing is to be conducted on an undiluted sample. Test shall be performed in accordance with EPA guidance manual pocedures. The basis of monitoring requirements was not provided.

Special Conditions Basis:
Conditiions specified as BMPs in the permit include the requirement to prepare, implement, and maintain a SPCC Plan and to prepare, submit, and implement a BMP plan for the containment of any or all process liquids or solids. The permit prohibits the use of biocides or additives containing tributyl tin, tributyl tin oxide, zinc, chromium, or related compounds in the cooling or boiler systems due to their toxicity at low concentrations. Other than set out above, the basis of these special conditions were not described.

Effective Date: 04/01/92	Expiration Date: 03/31/97	Abstract Date: 04/02/93

Facility Name: Courtaulds Fibers, Inc | Permit Number: AL0003026

Facility Description: Manufactures cellulosic and noncellulosic fibers by viscose and solv. | SIC Code: 2823

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	√	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	√	-	-	-	√

Abstract Information:
Complete; Outfalls 001 (001A and 001B were created for abstract purposes), 002, and 003.

Outfall: 001A | Receiving Water: Mobile River | Treatment: Not described.

Amount/Components:
Unspecified amount of process wastewater, cooling water, sanitary wastewater, boiler blowdown, hydrocyclone underflow, and storm water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	grab
1,1,2-Trichloroethane	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	grab
1,1-Dichloroethane	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	grab
1,1-Dichloroethylene	1.190000 lb/d N/A	1.860000 lb/d N/A		1/6 months	grab
1,2,4-Trichlorobenzene	5.060000 lb/d N/A	10.410000 lb/d N/A		1/6 months	composite
1,2-Dichlorobenzene	5.720000 lb/d N/A	12.120000 lb/d N/A		1/6 months	composite
1,2-Dichloroethane	5.060000 lb/d N/A	15.690000 lb/d N/A		1/6 months	grab
1,2-Dichloropropane	11.370000 lb/d N/A	17.100000 lb/d N/A		1/6 months	grab
1,2-Trans-Dichloroethylene	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	grab
1,3-Cis-Dichloropropylene	2.160000 lb/d N/A	3.270000 lb/d N/A		1/6 months	grab
1,3-Dichlorobenzene	2.300000 lb/d N/A	3.270000 lb/d N/A		1/6 months	composite
1,4-Dichlorobenzene	1.120000 lb/d N/A	2.080000 lb/d N/A		1/6 months	composite
2,4-Dichlorophenol	2.900000 lb/d N/A	8.330000 lb/d N/A		1/6 months	composite
2,4-Dimethylphenol	1.340000 lb/d N/A	2.680000 lb/d N/A		1/6 months	composite
2,4-Dinitrophenol	5.280000 lb/d N/A	9.140000 lb/d N/A		1/6 months	composite
2,4-Dinitrotoluene	8.400000 lb/d N/A	21.190000 lb/d N/A		1/6 months	composite
2,6-Dinitrotoluene	18.960000 lb/d N/A	47.650000 lb/d N/A		1/6 months	composite
2-Chlorophenol	2.300000 lb/d N/A	7.290000 lb/d N/A		1/6 months	composite

Facility Name: Courtaulds Fibers, Inc | Permit Number: AL0003026

Facility Description: Manufactures cellulosic and noncellulosic fibers by viscose and solv. | SIC Code: 2823

2-Nitrophenol	3.050000 lb/d N/A	5.130000 lb/d N/A		1/6 months	composite
3,4-Benzofluoranthene	1.710000 lb/d N/A	4.530000 lb/d N/A		1/6 months	composite
4,6-Dinitro-o-cresol	5.800000 lb/d N/A	20.590000 lb/d N/A		1/6 months	composite
4-Nitrophenol	5.350000 lb/d N/A	9.220000 lb/d N/A		1/6 months	composite
Acenaphthene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	grab
Acenaphthylene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Acrylonitrile	7.140000 lb/d N/A	17.990000 lb/d N/A		1/6 months	grab
Acute WET	N/A N/A	10.000000 % N/A	Units: % mort.; see below	1/month	grab
Anthracene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Benzene	2.750000 lb/d N/A	10.110000 lb/d N/A		1/6 months	grab
Benzo (a) anthracene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Benzo (a) pyrene	1.710000 lb/d N/A	4.530000 lb/d N/A		1/6 months	composite
Benzo (k) fluoranthane	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Bis (2-ethylhexyl) phthalate	7.660000 lb/d N/A	20.740000 lb/d N/A		1/6 months	composite
BOD5	1968.050000 lb/d N/A	3977.890000 lb/d N/A		5/week	composite
Carbon tetrachloride	1.340000 lb/d N/A	2.820000 lb/d N/A		1/6 months	grab
Chloride	Report lb/d N/A	Report lb/d N/A		1/month	composite
Chlorobenzene	1.120000 lb/d N/A	2.080000 lb/d N/A		1/6 months	composite
Chloroethane	7.730000 lb/d N/A	19.920000 lb/d N/A		1/6 months	grab
Chloroform	1.560000 lb/d N/A	3.420000 lb/d N/A		1/6 months	grab
Chrysene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
CN (T)	Report lb/d N/A	Report lb/d N/A		1/6 months	grab
COD	9841.000000 lb/d N/A	19682.000000 lb/d N/A		3/week	composite
Cr (T)	82.520000 lb/d N/A	205.920000 lb/d N/A		1/6 months	composite
CS2	Report lb/d N/A	Report lb/d N/A		1/6 months	grab

Facility Name: Courtaulds Fibers, Inc					Permit Number: AL0003026
Facility Description: Manufactures cellulosic and noncellulosic fibers by viscose and solv.					SIC Code: 2823
Cu (T)	107.790000 lb/d N/A	149.860000 lb/d N/A		1/6 months	composite
Di-n-butyl phthalate	2.010000 lb/d N/A	4.240000 lb/d N/A		1/6 months	composite
Diethyl phthalate	6.020000 lb/d N/A	15.090000 lb/d N/A		1/6 months	composite
Dimethyl phthalate	1.410000 lb/d N/A	3.490000 lb/d N/A		1/6 months	composite
Ethylbenzene	2.380000 lb/d N/A	8.030000 lb/d N/A		1/6 months	grab
Flow	Report MGD N/A	Report MGD N/A		continuous	recorder
Fluoranthene	1.860000 lb/d N/A	5.060000 lb/d N/A		1/6 months	composite
Fluorene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Hexachlorobenzene	0.790000 lb/d N/A	1.580000 lb/d N/A		1/6 months	composite
Hexachlorobutadiene	1.490000 lb/d N/A	3.640000 lb/d N/A		1/6 months	composite
Hexachloroethane	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	composite
Hg (T)	Report lb/d N/A	Report lb/d N/A		1/6 months	composite
Methyl chloride	6.390000 lb/d N/A	14.120000 lb/d N/A		1/6 months	grab
Methylene chloride	2.970000 lb/d N/A	6.620000 lb/d N/A		1/6 months	grab
Naphthalene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Ni (T)	125.630000 lb/d N/A	295.870000 lb/d N/A		1/6 months	composite
Nitrobenzene	2.010000 lb/d N/A	5.060000 lb/d N/A		1/6 months	composite
Other	2.160000 lb/d N/A	3.270000 lb/d N/A	1,3-dichloropropylene	1/6 months	grab
Pb (T)	23.790000 lb/d N/A	51.290000 lb/d N/A		1/6 months	composite
pH	N/A N/A	N/A 9.000000 su	6.0 su,daily min;see below	1/day	grab
Phenanthrene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Phenol	1.120000 lb/d N/A	1.930000 lb/d N/A		1/6 months	composite
Pyrene	1.860000 lb/d N/A	4.980000 lb/d N/A		1/6 months	composite
SO4	Report lb/d N/A	Report lb/d N/A		1/month	composite
TDS	Report lb/d N/A	Report lb/d N/A		1/month	composite

Facility Name: Courtaulds Fibers, Inc | Permit Number: AL0003026

Facility Description: Manufactures cellulosic and noncellulosic fibers by viscose and solv. | SIC Code: 2823

Tetrachloroethylene	1.640000 lb/d N/A	4.160000 lb/d N/A		1/6 months	grab
Thiocarbamates	Report lb/d N/A	Report lb/d N/A		1/6 months	composite
Toluene	1.930000 lb/d N/A	5.950000 lb/d N/A		1/6 months	grab
Trichloroethylene	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	grab
TSS	3843.740000 lb/d N/A	7837.240000 lb/d N/A		3/week	composite
Vinyl chloride	7.730000 lb/d N/A	19.920000 lb/d N/A		1/6 months	grab
Zn (T)	239.260000 lb/d N/A	490.630000 lb/d N/A		3/week	composite

Limitations/Monitoring Basis:
This outfall represents limits through 8/1/92. Except as described below, limitations are ELG-based consistent with BAT and NSPS for OCPSF manufacturing (40 CFR Part 414, Subpart I). The highest BOD5, TSS, anc COD monthly avgs. over the past 3 years was considered the best engineering judgement of the treatability for these pollutants. With additional ELG-based loadings for new sources, a BPJ-based monthly avg. limit was developed a daily max. limit was calculated (equal to 2 times the monthly avg.). Metal bearing wastestreams are limited to zinc from rayon manufacturing. CN-containing raw materials are prohibited; monitoring for CN is required to ensure that CN formation does not occur. WQ-based limits for hexachlorobenzene and the Cu (T) daily max., only, were established in accordance with State rules. Data from reports and models on groundwater contamination caused by an adjacent facility have resulted in the monitoring requirements for carbon tetrachloride, CS2, Hg (T), thiocarbamates, and chlorides (T) since groundwater is used as process water feed. Monitoring for pollutants believed to be at concentrations below concern is set at 1/6 months; monitoring may be decreased to 1/year where no compliance problems occur. Monitoring for chlorides (T) and Zn (T) is set at an increased frequency due to process contributions and levels of concern. By 8/1/92, continuous monitoring for pH is required. Acute WET testing shall be conducted on a specific IWC of 1% effluent; tests must be performed in accordance with EPA guidance manual procedures.

Outfall: 001B | Receiving Water: Mobile River | Treatment: Not described.

Amount/Components:
Unspecified amount of process wastewater, cooling water, sanitary wastewater, boiler blowdown, hydrocyclone underflow, and storm water 8/1 - 4/30/92

	Limitations			Monitoring Requirements	
Parameter	monthly Average	daily Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	grab
1,1,2-Trichloroethane	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	grab
1,1-Dichloroethane	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	grab
1,1-Dichloroethylene	1.190000 lb/d N/A	1.860000 lb/d N/A		1/6 months	grab
1,2,4-Trichlorobenzene	5.060000 lb/d N/A	10.410000 lb/d N/A		1/6 months	composite
1,2-Dichlorobenzene	5.720000 lb/d N/A	12.120000 lb/d N/A		1/6 months	composite
1,2-Dichloroethane	5.060000 lb/d N/A	15.690000 lb/d N/A		1/6 months	grab
1,2-Dichloropropane	11.370000 lb/d N/A	17.100000 lb/d N/A		1/6 months	grab
1,2-Trans-Dichloroethylene	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	grab

Facility Name: Courtaulds Fibers, Inc | Permit Number: AL0003026

Facility Description: Manufactures cellulosic and noncellulosic fibers by viscose and solv. | SIC Code: 2823

1,3-Dichlorobenzene	2.300000 lb/d N/A	3.270000 lb/d N/A		1/6 months	composite
1,4-Dichlorobenzene	1.120000 lb/d N/A	2.080000 lb/d N/A		1/6 months	composite
2,4-Dichlorophenol	2.900000 lb/d N/A	8.330000 lb/d N/A		1/6 months	composite
2,4-Dimethylphenol	1.340000 lb/d N/A	2.680000 lb/d N/A		1/6 months	composite
2,4-Dinitrophenol	5.280000 lb/d N/A	9.140000 lb/d N/A		1/6 months	composite
2,4-Dinitrotoluene	8.400000 lb/d N/A	21.190000 lb/d N/A		1/6 months	composite
2,6-Dinitrotoluene	18.960000 lb/d N/A	47.650000 lb/d N/A		1/6 months	composite
2-Chlorophenol	2.300000 lb/d N/A	7.290000 lb/d N/A		1/6 months	composite
2-Nitrophenol	3.050000 lb/d N/A	5.130000 lb/d N/A		1/6 months	composite
3,4-Benzofluoranthene	1.710000 lb/d N/A	4.530000 lb/d N/A		1/6 months	composite
4,6-Dinitro-o-cresol	5.800000 lb/d N/A	20.590000 lb/d N/A		1/6 months	composite
4-Nitrophenol	5.350000 lb/d N/A	9.220000 lb/d N/A		1/6 months	composite
Acenaphthene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	grab
Acenaphthylene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Acrylonitrile	7.140000 lb/d N/A	17.990000 lb/d N/A		1/6 months	grab
Acute WET	N/A N/A	N/A 10.000000	Units: % mort.; see below	1/month	grab
Anthracene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Benzene	2.750000 lb/d N/A	10.110000 lb/d N/A		1/6 months	grab
Benzo (a) anthracene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Benzo (a) pyrene	1.710000 lb/d N/A	4.530000 lb/d N/A		1/6 months	composite
Benzo (k) fluoranthane	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Bis (2-ethylhexyl) phthalate	7.660000 lb/d N/A	20.740000 lb/d N/A		1/6 months	composite
BOD5	1968.050000 lb/d N/A	3977.890000 lb/d N/A		5/week	composite
Carbon tetrachloride	1.340000 lb/d N/A	2.820000 lb/d N/A		1/6 months	grab
Chloride	Report lb/d N/A	Report lb/d N/A		1/month	composite

Facility Name: Courtaulds Fibers, Inc | Permit Number: AL0003026

Facility Description: Manufactures cellulosic and noncellulosic fibers by viscose and solv. | SIC Code: 2823

Chlorobenzene	1.120000 lb/d N/A	2.080000 lb/d N/A		1/6 months	composite
Chloroethane	7.730000 lb/d N/A	19.920000 lb/d N/A		1/6 months	grab
Chloroform	1.560000 lb/d N/A	3.420000 lb/d N/A		1/6 months	grab
Chrysene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
CN (T)	Report lb/d N/A	Report lb/d N/A		1/6 months	grab
COD	9841.000000 lb/d N/A	19682.000000 lb/d N/A		3/week	composite
Cr (T)	82.520000 lb/d N/A	205.920000 lb/d N/A		1/6 months	composite
CS2	Report lb/d N/A	Report lb/d N/A		1/6 months	grab
Cu (T)	107.790000 lb/d N/A	149.860000 lb/d N/A		1/6 months	composite
Di-n-butyl phthalate	2.010000 lb/d N/A	4.240000 lb/d N/A		1/6 months	composite
Diethyl phthalate	6.020000 lb/d N/A	15.090000 lb/d N/A		1/6 months	composite
Dimethyl phthalate	1.410000 lb/d N/A	3.490000 lb/d N/A		1/6 months	composite
Ethylbenzene	2.380000 lb/d N/A	8.030000 lb/d N/A		1/6 months	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
Fluoranthene	1.860000 lb/d N/A	5.060000 lb/d N/A		1/6 months	composite
Fluorene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Hexachlorobenzene	0.790000 lb/d N/A	1.580000 lb/d N/A		1/6 months	composite
Hexachlorobutadiene	1.490000 lb/d N/A	3.640000 lb/d N/A		1/6 months	composite
Hexachloroethane	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	composite
Hg (T)	Report lb/d N/A	Report lb/d N/A		1/6 months	composite
Methyl chloride	6.390000 lb/d N/A	14.120000 lb/d N/A		1/6 months	grab
Methylene chloride	2.970000 lb/d N/A	6.620000 lb/d N/A		1/6 months	grab
Naphthalene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Ni (T)	125.630000 lb/d N/A	295.870000 lb/d N/A		1/6 months	composite
Nitrobenzene	2.010000 lb/d N/A	5.060000 lb/d N/A		1/6 months	composite

Facility Name: Courtaulds Fibers, Inc | Permit Number: AL0003026

Facility Description: Manufactures cellulosic and noncellulosic fibers by viscose and solv. | SIC Code: 2823

Other	2.160000 lb/d N/A	3.270000 lb/d N/A	1,3-dichloropropylene	1/6 months	grab
Pb (T)	23.790000 lb/d N/A	51.290000 lb/d N/A		1/6 months	composite
pH	N/A N/A	N/A 9.000000 su	6.0 su, daily min	continuous	record
Phenanthrene	1.640000 lb/d N/A	4.390000 lb/d N/A		1/6 months	composite
Phenol	1.120000 lb/d N/A	1.930000 lb/d N/A		1/6 months	composite
Pyrene	1.860000 lb/d N/A	4.980000 lb/d N/A		1/6 months	composite
SO4	Report lb/d N/A	Report lb/d N/A		1/month	composite
TDS	Report lb/d N/A	Report lb/d N/A		1/month	composite
Tetrachloroethylene	1.640000 lb/d N/A	4.160000 lb/d N/A		1/6 months	grab
Thiocarbamates	Report lb/d N/A	Report lb/d N/A		1/6 months	composite
Toluene	1.930000 lb/d N/A	5.950000 lb/d N/A		1/6 months	grab
Trichloroethylene	1.560000 lb/d N/A	4.010000 lb/d N/A		1/6 months	grab
TSS	3843.740000 lb/d N/A	7837.240000 lb/d N/A		3/week	composite
Vinyl chloride	7.730000 lb/d N/A	19.920000 lb/d N/A		1/6 months	grab
Zn (T)	239.260000 lb/d N/A	490.630000 lb/d N/A		3/week	composite

Limitations/Monitoring Basis:
Same basis for limitations and monitoring as shown for Outfall 001A. This outfall represents limits after 8/1/92. The permit includes a schedule for the installation of continuous pH monitoring equipment. Once installed, pH monitoring is required on a continuous basis, as shown in the limits for Outfall 001B.

Outfall: 002 | Receiving Water: Tributary to Carter Branch | Treatment: Not specified

Amount/Components:
Unspecified amount containing uncontaminated storm water runoff and plant water supply well water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Carbon tetrachloride	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Chloride	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
CS2	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Cu (TR)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Flow	N/A Report MGD	N/A Report MGD	Report MGD	1/6 months	estimate

Hg (T)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Pb (TR)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Thiocarbamates	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Zn (TR)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab

Limitations/Monitoring Basis:
Monitoring is required for carbon tetrachloride, CS2, Hg(T), thiocarbonates, and chloride (T) because this wastewater may potentially be used as process water feed. Form 2C does not indicate the presence of these contaminates at levels of concern in the discharge. Based on the 2C data and the fact that concentrations in the groundwater do not vary substantially over time, the monitoring frequency is set at once per 6 months for all parameters. The Zinc, copper, and lead are indicated on the Form 2c to be present at levels above the instream water quality standards assuming no available dilution instream. Because the discharge is intermittent and occurs primarily during periods of high stream flow (i.e. storm events) no limitations are proposed at this time. The permittee will be required to monitor the discharge for total recoverable copper, zinc, and lead once every six months. It is believed that the best management practices requirements proposed by the permit will result in the continued decline of these pollutants in the storm water.

Outfall: 003 | Receiving Water: Tributary to Cold Creek | Treatment: Not specified

Amount/Components:
Unspecified amount containing storm water runoff, car wash water, and plant water supply well water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Carbon tetrachloride	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Chloride	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
CS2	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Flow	N/A Report MGD	N/A Report MGD		1/6 months	estimate
Hg (T)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Thiocarbamates	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Zn (TR)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab

Limitations/Monitoring Basis:
Monitoring is required for carbon tetrachloride, CS2, Hg(T), thiocarbonates, and chloride (T) because this wastewater may potentially be used as process waster feed. Form 2C does not indicate the presence of these contaminants at levels of concern in the discharge. Based on the 2C data and the fact that concentrations in the groundwater do not vary substantially over time, the monitoring frequency is set at once per 6 months for all parameters. The Zinc is indicated on the Form 2c to be present at levels above the instream water quality standard assuming no available dilution instream. Because the data base is limited to only one analysis and the discharge is intermittent no limitations are proposed at this time. The permittee will be required to monitor the discharge for total recoverable zinc over six months. It is believed that the best management practices requirements coupled with the prohibition of zinc as a cooling water additive will address mitigation of potential water quality impacts.

Special Conditions Basis:
The permit requires the development within 6 months and the implementation within 18 months of a BMP plan designed to minimize or reduce the potential for contaminated storm water runoff. The permit also requires the development of BMP and SPCC plans to contain process liquids and solids. In accordance with coastal regulations, the permit requires that the facility conduct discharge information zone (DIZ) monitoring. Should the results of DIZ monitoring indicate biological damage has occurred at the perimeter or outside a 400 ft radius centered at the discharge site, the permittee will be required to submit a plan to correct and eliminate the biological damage caused by the discharge. The permit contains a biocide clause to ensure that the Department reviews the biocides used in the cooling or boiler systems. The use of biocides containing tributyl tin, zinc, and chromium is

Facility Name: Courtaulds Fibers, Inc		Permit Number: AL0003026
Facility Description: Manufactures cellulosic and noncellulosic fibers by viscose and solv.		SIC Code: 2823
prohibited based on data indicating that these compounds are toxic at low levels. A compliance schedule is set forth which requires the installation of a continuous pH monitor at 001 by 8/1/92; it also requires the submittal of the DIZ study within 120 days. Reporting within 14 days of milestone dates as to schedule compliance is also required.		
Effective Date: 05/01/92	Expiration Date: 04/30/97	Abstract Date: 04/06/93

Facility Name: Degussa Corporation, AL Group | Permit Number: AL0023272

Facility Description: Organic and inorganic chemical manufacturer | SIC Code: 2819

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	√	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	√	√	-	-	-	√

Abstract Information:
Complete; Outfalls 001, 001A, 001B, 002, and 003.

Outfall: 001 | Receiving Water: Middle Fork of Deer via canal | Treatment: See 001A and 001B

Amount/Components:
Unspecified amount of cooling tower blowdown, boiler blowdown, once through cooling water, and treated process wastewaters

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A 4.000000 mg/l	N/A 8.000000 mg/l	See below	1/day	24hr fw composite
Chloride	N/A 6100.000000 mg/l	N/A 9000.000000 mg/l		1/week	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	Units: % mort.; see below	1/month	fw composite
CN (T)	N/A 0.003000 mg/l	N/A 0.003000 mg/l		1/week	grab
Cu (TR)	N/A 0.008700 mg/l	N/A 0.008700 mg/l		1/week	24hr fwcomposite
Flow	N/A Report MGD	N/A Report MGD		continuous	24hr fw totalized
NH3-N	68.000000 lb/d N/A	68.000000 lb/d N/A		1/day	composite
Ni (TR)	N/A 0.024900 mg/l	N/A 0.225000 mg/l		1/week	24hr fw composite
PAHs	N/A 0.934000 ug/l	N/A 1.868000 ug/l		1/6 months	grab
Pb (TR)	N/A 0.016800 mg/l	N/A 0.420000 mg/l		1/week	24hr fw composite
pH	N/A N/A	N/A 9.000000 su	6.0 su; daily min.	1/day	grab
TDS	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Temp.	N/A N/A	90.000000 F N/A	degrees Fahrenheit	1/day	grab
TOC	Report ppd N/A	Report ppd N/A		3/week	24hr fw composite
TRC	N/A 0.022000 mg/l	N/A 0.039000 mg/l		1/week	grab
TSS	1042.560000 ppd N/A	2718.630000 ppd N/A		3/week	24hr fw composiste
Zn (TR)	N/A 0.258000 mg/l	N/A 0.285000 mg/l		1/week	composite

Limitations/Monitoring Basis:
Temp. limits are incorporated from past permit since the limit is protective of water quality as demonstrated by past stream monitoring. pH limits should not cause receiving water to be adversely impacted. NH3-N and BOD5 limits

Facility Name: Degussa Corporation, AL Group | Permit Number: AL0023272

Facility Description: Organic and inorganic chemical manufacturer | SIC Code: 2819

are adopted from the past permit; these have proven not to exert an oxygen demand above that of background. TSS loading limitations are equal to the sum of ELG- and BPJ-based limitations from 001A and 001B, where "no additional major sources of TSS are believed present". WQ-based limits were calculated by simple dilution using an available dilution ratio of 3:1 as follows: (1) for TRC, EPA saltwater criteria were used; (2) for CN, State acute saltwater criteria was used and, in absence of State chronic, the EPA chronic saltwater criteria was used; this same approach was taken for Cu (TR); and (3) State acute and chronic saltwater criteria were used for Zn (TR), Pb (TR), Ni (TR). Metals limitations are expressed as TR in accordance with State WQS. Metals monitoring may be reduced to 1/month after 6 months of compliance. Chloride limits are maintained from the previous permit; the max. limit is less than background concentrations and based on modelling, canal water and effluent will separate thus ensuring that effluent moves out of the canal. Chlorides monitoring is reduced due to past monitoring consistently showing compliance. TDS monitoring is required but limitations are not specified because chlorides are expected to be the major component of TDS. The PAH daily avg. limit is based on Statehuman health criteria and the dilution ratio of 3:1. In the absence of acute and chronic criteria, the daily max. limit is calculated using a best engineering judgement multiplication factor of 2; this approach is consistent with the permitting policy. Due to the potential for toxicity as a result of synergistic effects, WET monitoring will be required; chronic WET is required since the dilution ratio of 3:1, as based on the dispersion model, is less than 100:1. Tests with statistically significant different results from the control or with less than 70% fertilization are a violation. Saltwater species and specific testing methods from EPA guidance manuals are specified. CN (T), Cu (TR), Zn (TR), Pb (TR), Ni (TR), and PAH limitations and monitoring requirements are imposed because the limitations for these parameters at 001A and 001B would exceed WQS. Since PAHs are not expected above detectable levels, 1/6 months monitoring is required. TRC limitation are established because the application for 2C indicates the presence of TRC. Other than described above, the basis of the monitoring requirements were not provided.

Outfall: 001A | Receiving Water: Middle Fork of Deer via canal | Treatment: Neut, Sed

Amount/Components:
Unspecified amount consisting of treated process wastewaters resulting from the manufacture of organic and inorganic chemicals

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	0.030000 ppd N/A	0.090000 ppd N/A		1/6 months	grab
1,1,2-Trichloroethane	0.050000 ppd N/A	0.190000 ppd N/A		1/6 months	grab
1,1-Dichloroethane	0.030000 ppd N/A	0.090000 ppd N/A		1/6 months	grab
1,1-Dichloroethylene	0.030000 ppd N/A	0.090000 ppd N/A		1/6 months	grab
1,2,4-Trichlorobenzene	0.290000 ppd N/A	1.190000 ppd N/A		1/6 months	24hr fw composite
1,2-Dichlorobenzene	0.290000 ppd N/A	1.190000 ppd N/A		1/6 months	24hr fw composite
1,2-Dichloroethane	0.270000 ppd N/A	0.860000 ppd N/A		1/6 months	grab
1,2-Dichloropropane	0.290000 ppd N/A	1.190000 ppd N/A		1/6 months	grab
1,2-Trans-Dichloroethylene	0.040000 ppd N/A	0.100000 ppd N/A		1/6 months	grab
1,3-Dichlorobenzene	0.210000 ppd N/A	0.570000 ppd N/A		1/6 months	24hr fw composite
1,4-Dichlorobenzene	0.210000 ppd N/A	0.570000 ppd N/A		1/6 months	24hr fw composite
2,4-Dinitrophenol	1.810000 ppd N/A	6.440000 ppd N/A		1/6 months	24hr fw composite
2-Nitrophenol	0.100000 ppd N/A	0.350000 ppd N/A		1/6 months	24hr fw composite
4,6-Dinitro-o-cresol	0.120000 ppd N/A	0.420000 ppd N/A		1/6 months	fw composite

4-Nitrophenol	0.240000 ppd N/A	0.860000 ppd N/A		1/6 months	fw composite
Acrylonitrile	0.140000 ppd N/A	0.350000 ppd N/A		1/6 months	grab
Benzene	0.090000 ppd N/A	0.200000 ppd N/A		1/6 months	grab
Carbon tetrachloride	0.210000 ppd N/A	0.570000 ppd N/A		1/6 months	grab
Chlorobenzene	0.210000 ppd N/A	0.570000 ppd N/A		1/6 months	grab
Chloroethane	0.160000 ppd N/A	0.440000 ppd N/A		1/6 months	grab
Chloroform	0.170000 ppd N/A	0.490000 ppd N/A		1/6 months	grab
CN (T)	0.630000 ppd N/A	1.800000 ppd N/A		1/month	grab
Cr (T)	3.330000 ppd N/A	8.320000 ppd N/A		1/6 months	24hr fw composite
Cu (T)	4.350000 ppd N/A	10.150000 ppd N/A		1/6 months	24hr fw composite
Ethylbenzene	0.210000 ppd N/A	0.570000 ppd N/A		1/6 months	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	totalized
Hexachlorobenzene	0.290000 lb/d N/A	1.190000 lb/d N/A		1/6 months	24hr fw composite
Hexachlorobutadiene	0.210000 ppd N/A	0.570000 ppd N/A		1/6 months	24hr fw composite
Hexachloroethane	0.290000 lb/d N/A	1.190000 lb/d N/A		1/6 months	24hr fw composite
Methyl chloride	0.160000 ppd N/A	0.440000 ppd N/A		1/6 months	grab
Methylene chloride	0.050000 ppd N/A	0.250000 ppd N/A		1/6 months	grab
NH3-N	Report lb/d N/A	Report lb/d N/A		3/week	composite
Ni (T)	5.070000 lb/d N/A	11.950000 lb/d N/A		1/6 months	24hr fw composite
Nitrobenzene	3.360000 ppd N/A	9.610000 ppd N/A		1/6 months	composite
Other	0.290000 ppd N/A	1.190000 ppd N/A	1,3-dichloropropylene	1/6 months	grab
Pb (T)	0.960000 ppd N/A	2.070000 ppd N/A		1/6 months	24hr fw composite
pH	Report N/A	Report N/A	Between 6.0 and 9.0 su	1/day	grab
Temp.	N/A N/A	90.000000 F N/A	degrees Fahrenheit	1/day	grab
Tetrachloroethylene	0.080000 ppd N/A	0.250000 ppd N/A		1/6 months	grab

Toluene	0.040000 ppd N/A	0.110000 ppd N/A		1/6 months	grab
Trichloroethylene	0.040000 ppd N/A	0.100000 ppd N/A		1/6 months	grab
Vinyl chloride	0.150000 ppd N/A	0.260000 ppd N/A		1/6 months	grab
Zn (T)	3.150000 ppd N/A	7.840000 ppd N/A		1/month	24hr fw composite

Limitations/Monitoring Basis:
Except as described below ELG-based limitations are imposed in accordance with the OCPSF manufacturing (40 CFR Part 414; Subparts G and J). CN limits were calculated allowing for CN-bearing wastewaters from the cyanuric chloride process (regulated under OCPSF ELGs). Metals limits were calculated in consideration of best engineering judgement allowing for metal-bearing wastewaters from the cyanuric chloride process and aerosil/siltet processes. Monitoring 1/6 months is specified for pollutants below levels of concern. Because CN is used in the process, 1/month monitoring is required. Zn is present at a significant level as indicated on the application Form 2F and therefore, 1/month monitoring is required. NH3-N monitoring is specified based on the previous permit with a reduction in frequency and daily monitoring for pH and flow are specified; the basis of these monitoring requirements were not described.

Outfall: 002 | Receiving Water: Middle Fork of Deer via canal | Treatment: None.

Amount/Components:
Unspecified amount of storm water discharge (north)

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/6 months	estimate
O&G	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
pH	N/A N/A	Report su N/A	Report daily min. s u	1/6 months	grab
TOC	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/6 months	grab

Limitations/Monitoring Basis:
TOC monitoring requirements are maintained from the existing permit. O&G, COD, pH, and TSS are noted as pollutants of concern based on organic and inorganic chemical manufacturing. Although monitoring (except for COD) is specified, no limitations are imposed because it is believed that the pollutants of concern can be controlled by the BMPs required by the permit. The monitoring basis was not provided.

Outfall: 003 | Receiving Water: Deer River via barge canal | Treatment: None.

Amount/Components:
Unspecified amount of storm water discharge (east)

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cd (TR)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Flow	N/A N/A	N/A Report MGD		1/6 months	estimate
Ni (TR)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab

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O&G	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Pb (TR)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
pH	N/A N/A	N/A Report su	Report daily min. su	1/6 months	grab
TOC	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
Zn (TR)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab

Limitations/Monitoring Basis:
O&G, TOC, pH, and TSS are noted as pollutants of concern in this discharge. Additionally, application Forms 2C and 2F indicate the prescence of Cd, Pb, Ni, and Zn. Although monitoring is specified, no limitations are imposed because it is believed that the pollutants of concern can be controlled by the BMPs required by the permit. The monitoring basis was not provided.

Outfall: 001B | Receiving Water: Deer via canal | Treatment: Nitr, Denitr, Aer, Stab

Amount/Components:
Unspecified amount of bio. treatment sys. discharge (rock reed) which consists of treated process wastewaters from org. and inorg.chem. manufacturing.

	Limitations			Monitoring Requirements	
Parameter	monthly Average	daily Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	0.060000 ppd N/A	0.160000 ppd N/A		1/6 months	grab
1,1,2-Trichloroethane	0.060000 ppd N/A	0.160000 ppd N/A		1/6 months	grab
1,1-Dichloroethane	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	grab
1,1-Dichloroethylene	0.050000 ppd N/A	0.070000 ppd N/A		1/6 months	grab
1,2,4-Trichlorobenzene	0.200000 ppd N/A	0.410000 ppd N/A		1/6 months	fw composite
1,2-Dichlorobenzene	0.220000 ppd N/A	0.470000 ppd N/A		1/6 months	grab
1,2-Dichloroethane	0.200000 ppd N/A	0.610000 ppd N/A		1/6 months	grab
1,2-Dichloropropane	0.440000 ppd N/A	0.680000 ppd N/A		1/6 months	grab
1,2-Trans-Dichloroethylene	0.060000 ppd N/A	0.160000 ppd N/A		1/6 months	grab
1,3-Dichlorobenzene	0.090000 ppd N/A	0.130000 ppd N/A		1/6 months	grab
1,4-Dichlorobenzene	0.040000 ppd N/A	0.080000 ppd N/A		1/6 months	fw composite
2,4-Dichlorophenol	0.110000 ppd N/A	0.320000 ppd N/A		1/6 months	fw composite
2,4-Dimethylphenol	0.050000 ppd N/A	0.100000 ppd N/A		1/6 months	fw composite

2,4-Dinitrophenol	0.210000 ppd N/A	0.360000 ppd N/A		1/6 months	fw composite
2,4-Dinitrotoluene	0.330000 ppd N/A	0.830000 ppd N/A		1/6 months	fw composite
2,6-Dinitrotoluene	0.740000 ppd N/A	1.860000 ppd N/A		1/6 months	fw composite
2-Chlorophenol	0.090000 ppd N/A	0.280000 ppd N/A		1/6 months	fw composite
2-Nitrophenol	0.120000 ppd N/A	0.200000 ppd N/A		1/6 months	fw composite
3,4-Benzofluoranthene	0.070000 ppd N/A	0.180000 ppd N/A		1/6 months	fw composite
4,6-Dinitro-o-cresol	0.230000 ppd N/A	0.800000 ppd N/A		1/6 months	fw composite
4-Nitrophenol	0.210000 ppd N/A	0.360000 ppd N/A		1/6 months	fw composite
Acenaphthene	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	fw composite
Acenaphthylene	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	fw composite
Acrylonitrile	0.280000 ppd N/A	0.700000 ppd N/A		1/6 months	grab
Anthracene	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	composite
Benzene	0.110000 ppd N/A	0.390000 ppd N/A		1/6 months	grab
Benzo (a) anthracene	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	fw composite
Benzo (a) pyrene	0.070000 ppd N/A	0.180000 ppd N/A		1/6 months	fw composite
Benzo (k) fluoranthane	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	fw composite
Bis (2-ethylhexyl) phthalate	0.300000 ppd N/A	0.810000 ppd N/A		1/6 months	fw composite
Carbon tetrachloride	0.050000 ppd N/A	0.110000 ppd N/A		1/6 months	grab
Chlorobenzene	0.040000 ppd N/A	0.080000 ppd N/A		1/6 months	grab
Chloroethane	0.300000 ppd N/A	0.780000 ppd N/A		1/6 months	grab
Chloroform	0.060000 ppd N/A	0.130000 ppd N/A		1/6 months	grab
Chrysene	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	fw composite
CN (T)	39.690000 ppd N/A	112.200000 ppd N/A		1/month	grab
Cr (T)	4.150000 ppd N/A	10.350000 ppd N/A		1/6 months	fw composite
Cu (T)	5.420000 ppd N/A	12.630000 ppd N/A		1/6 months	fw composite

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Di-n-butyl phthalate	0.080000 ppd N/A	0.160000 ppd N/A		1/6 months	fw composite
Diethyl phthalate	0.230000 ppd N/A	0.590000 ppd N/A		1/6 months	fw composite
Dimethyl phthalate	0.050000 ppd N/A	0.140000 ppd N/A		1/6 months	fw composite
Ethylbenzene	0.090000 ppd N/A	0.310000 ppd N/A		1/6 months	grab
Flow	N/A Report MGD	N/A Report MGD		daily	totalized
Fluoranthene	0.070000 ppd N/A	0.200000 ppd N/A		1/6 months	fw composite
Fluorene	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	fw composite
Hexachlorobenzene	0.040000 ppd N/A	0.080000 ppd N/A		1/6 months	fw composite
Hexachlorobutadiene	0.060000 ppd N/A	0.140000 ppd N/A		1/6 months	fw composite
Hexachloroethane	0.060000 ppd N/A	0.160000 ppd N/A		1/6 months	fw composite
Methyl chloride	0.250000 ppd N/A	0.550000 ppd N/A		1/6 months	grab
Methylene chloride	0.120000 ppd N/A	0.260000 ppd N/A		1/6 months	grab
Naphthalene	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	fw composite
NH3-N	Report lb/d N/A	Report lb/d N/A		3/week	fw composite
Ni (T)	6.310000 ppd N/A	14.870000 ppd N/A		1/6 months	fw composite
Nitrobenzene	0.080000 ppd N/A	0.200000 ppd N/A		1/6 months	fw composite
Other	0.080000 ppd N/A	0.130000 ppd N/A	1,3-dichloropropylene	1/6 months	grab
Pb (T)	1.200000 ppd N/A	2.580000 ppd N/A		1/6 months	fw composite
pH	N/A N/A	N/A Report su	6.0 su; daily min.	1/day	grab
Phenanthrene	0.060000 ppd N/A	0.170000 ppd N/A		1/6 months	fw composite
Phenol	0.040000 ppd N/A	0.070000 ppd N/A		1/6 months	fw composite
Pyrene	0.070000 ppd N/A	0.190000 ppd N/A		1/6 months	fw composite
Tetrachloroethylene	0.060000 ppd N/A	0.160000 ppd N/A		1/6 months	grab
TOC	275.580000 ppd N/A	551.200000 ppd N/A		3/week	fw composite
Toluene	0.070000 ppd N/A	0.230000 ppd N/A		1/6 months	grab

Facility Name: Degussa Corporation, AL Group | Permit Number: AL0023272

Facility Description: Organic and inorganic chemical manufacturer | SIC Code: 2819

Trichloroethylene	0.060000 ppd N/A	0.160000 ppd N/A		1/6 months	grab
Vinyl chloride	0.300000 ppd N/A	0.780000 ppd N/A		1/6 months	grab
Zn (T)	3.920000 ppd N/A	9.750000 ppd N/A		1/month	fw composite

Limitations/Monitoring Basis:
Limitations are ELG-based calculated from commingled and co-treated OCPSF manufacturing waste streams (regulated under 40 CFR Part 414, Subparts D, F, H, and I) and inorganic manufacturing waste streams (regulated under 40 CFR Part 415, Subpart I); mass limitations for each category were added to derive the effluent limits. pH limits are based on ELGs from both categories. The manufacture of HCN by the Andrussow process is not regulated under ELGs; based on best engineering judgement (BEJ), the 40 CFR Part 415, Subpart AP regulations are applied since the ELGs are based on treatability. A BEJ allowance for CN was provided for the production of NaCN. The TOC daily avg. limit is established by adding the daily avg. loading limit based on 40 CFR Part 415, Subpart I (which accounts for 0.75% of the load) and the remaining loads; the daily max. limit was derived by multiplying 2 times the daily avg. Monitoring 1/6 months is specified for pollutants below levels of concern. Because CN is used in the process, 1/month monitoring is required. Zn is present at a significant level as indicated on the application Form 2F and therefore, 1/month monitoring is required. TOC and NH3-N monitoring is set forth at 3/week based on the nature of the discharge. Daily monitoring for pH and flow are specified; the basis of these monitoring requirements were not described.

Special Conditions Basis:
The permit requires the development within 6 months and the implementation within 18 months (set forth as a compliance schedule) of a BMP plan designed to minimize or reduce the potential for contaminated storm water runoff. The permit also requires the development of BMP and SPCC plans to contain process liquids and solids. In accordance with coastal regulations, the permit requires taht the facility conduct discharge information zone (DIZ) monitoring. Should the results of DIZ monitoring indicate biological damage has occurred at the perimeter or outside a 400ft radius centerd at the discharge site, the permittee will be required to submit a plan to correct and eliminate the biological damage caused by the discharge. The permit contains a biocide clause to ensure that the Department reviews the biocides used in the cooling or boiler systems. The use of biocides containing tributyl tin, zinc, and chromium is prohibited based on data indicating that these compounds are toxic at low levels. Downstream DO monitoring 3/week is specified in conjunction with NH3-N and BOD5 monitoring at 001;where DO results show concentrations less than 5 mg/l, process water discharging must cease.

Effective Date: 11/01/92 | Expiration Date: 10/31/97 | Abstract Date: 04/07/93

Facility Name: Arkansas P&L, R.E. Ritchie Pl. | Permit Number: AR0000388

Facility Description: Power plant | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	√

Abstract Information:
Partial; Outfall 001 (representative of 002), 003, 004, and 005.

Outfall: 001 | Receiving Water: Mississippi River | Treatment: None.

Amount/Components:
202 MGD of once through cooling water from Unit 1.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A Report	N/A Report	Units not specified	1/quarter	24hr fw composite
Flow	N/A Report MGD	N/A 202.000000 MGD		continuous	record
Temp.	N/A 125.000000 F	N/A N/A	130F inst. max./see below	continuous	record
TRC	N/A N/A	28.000000 lb/d 0.200000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:
Except for Acute WET, limitations and monitoring requirements are retained from the previous permit. The limit bases were further explained as follows: (1) TRC limitations are ELG-based consistent with the steam electric category (40 CFR Part 423) where the mass limits are calculated based on a design flow of 202 MGD and 2 hrs/day of chlorination; (2) temp. limits are based on meeting State WQSs; and (3) the flow limit is based on the application data. The daily avg. temp. must be calculated by summing the flow weighted temperatures taken over 2 hr increments and dividing by the sum of the flows. In accordance with National policy, Region 6 strategy, and the need to measure synergistic effects, WET testing is specified. WET testing is specified for all major industrial facilities. Since the 7Q10 stream flow is more than 100 cfs and the stream to plant flow ratio is more than 100:1, acute WET is specified. Acute WET testing is required in accordance with specified procedures; 5 dilutions (including the critical dilution) and two species are specified. Testing for all outfall parametersmust be conducted concurrent to acute WET testing. Testing may be reduced or discontinued dependent on findings of no toxicity at the critical dilution and 1/2 the critical dilution; increased testing may also be specified if toxicity is found. Specific forms are provided for recording acute WET results.

Outfall: 003 | Receiving Water: Mississippi River | Treatment: Eq, Neut

Amount/Components:
0.058 MGD of demineralization system regeneration wastewater and sanitary wastewater

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A 30.000000 mg/l	N/A 45.000000 mg/l		1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	record
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	grab
pH	N/A Report	N/A Report	Between 6.0 su and 9.0 su	1/week	grab

Facility Name: Arkansas P&L, R.E. Ritchie Pl.					Permit Number: AR0000388
Facility Description: Power plant					SIC Code: 4931
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
The pH and O&G limits are WQ-based consistent with State Regulation No. 2. All other limits are continued from the previous permit. The TSS limits were further explained to be ELG-based consistent with the steam electric category (40 CFR Part 423). Monitoring for flow has been increased from 1/day, instantaneous to continuous, record due to chart monitoring requirements for non-municipal permits. The bases of the remaining monitoring conditions were not described.

Outfall: 004 | Receiving Water: Unnamed ditch to Long Lake | Treatment: "p

Amount/Components:
0.325 MGD of low volume wastewater (boiler blowdown, boiler hopper seal, filter backwash, floor drains) and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A Report	N/A Report	Units not specified	1/quarter	24hr fw composite
As (T)	N/A Report	N/A Report	Units not specified	1/quarter	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		daily	instantaneous
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	grab
pH	N/A Report	N/A Report	Between 6.0 su and 9 .0 su	1/week	grab
Se (T)	N/A Report	N/A Report	Units not specified	1/quarter	24hr fw composite
TSS	N/A 15.000000 mg/l	N/A 23.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
The pH and O&G limits are WQ-based consistent with State Regulation No. 2; pH limits are also consistent with the past permit. The TSS limits are WQ-based in accordance with the Lakes Policy in State Regulation No. 6. A reasonable potential for Se (T) and As (T) exceedances exists based on the evaluation of data gathered from a priority pollutant scan. Since no numerical State WQS have been developed for these parameters, no limitations have been placed in the permit. Monitoring 1/quarter is specified to ensure that levels are the same as reported by the facility. In accordance with National policy, Region 6 strategy, and the need to measure synergistic effects, WET testing is specified. Acute WET monitoring is required based on the priority pollutant scan results. 24hr toxicity screening may be conducting in lieu of 48hr acute WET testing set out for Outfall 001. Screening must be conducted in accordance with EPA guidance manual procedures and data reported on DMRs. If less than 80% survival is found, retesting must be conducted within 24hrs. Testing for all outfall parameters must be conducted concurrent to WET testing.

Outfall: 005 | Receiving Water: Unnamed ditch to Long Lake | Treatment: AL

Amount/Components:
0.01 MGD of chemical metal cleaning wastes.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Ag (T)	N/A Report	N/A Report	Units not specified	1/month	24hr fw composite
Cd (T)	N/A Report	N/A Report	Units not specified	1/month	24hr fw composite
Chronic WET	N/A Report	N/A Report	Units not specified	1/month	24hr fw composite

Facility Name: Arkansas P&L, R.E. Ritchie Pl. | Permit Number: AR0000388

Facility Description: Power plant | SIC Code: 4931

Cu (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l		1/week	grab
Fe (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l		1/week	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	estimate
Ni (T)	N/A Report	N/A Report	Units not specified	1/month	grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	grab
Pb (T)	N/A Report	N/A Report	Units not specified	1/month	24hr fw composite
pH	N/A Report	N/A Report	Between 6.0 su and 9 .0 su	1/week	grab
SO4	N/A 42.000000 mg/l	N/A N/A	See below	1/month	grab
Tl (T)	N/A Report	N/A Report	Units not specified	1/month	24hr fw composite
TSS	N/A 15.000000 mg/l	N/A 23.000000 mg/l		1/week	grab
Zn (T)	N/A Report	N/A Report	Units not specified	1/month	24hr fw composite

Limitations/Monitoring Basis:

The Cu (T) and Fe (T) limits are ELG-based consistent with the steam electric category (40 CFR Part 423). pH and O&G limits are WQ-based consistent with State Regulation No. 2. The TSS limits are WQ-based in accordance with the Lakes Policy in State Regulation No. 6. A reasonable potential for Zn (T), Cd (T), Ag (T), Tl (T), Ni (T), and Pb (T) exceedances exists based on the evaluation of data gathered from a priority pollutant scan. Since no numerical State WQS have been developed for these parameters, no limitations have been placed in the permit. Monitoring 1/month is specified to ensure that levels are the same as reported by the facility. A limit for SO4 has been included due to data in the permit application being as high as 1110 mg/l; the limit is based on State Regulation 2 for the Delta Ecoregion. In accordance with National policy, Region 6 strategy, and the need to measure synergistic effects, WET testing is specified. Chronic WET monitoring is required based on the priority pollutant scan results. Chronic WET testing is required in accordance with EPA guidance manual procedures; 5 dilutions (including the critical dilution) and two species are specified. Testing for all outfall parameters must be conducted concurrent to WET testing. Testing may be reduced or discontinued dependent on findings of no toxicity at the critical dilution and 1/2 the critical dilution; increased testing may also be specified if toxicity is found. Specific forms are provided for recording chronic WET results.

Special Conditions Basis:

Where toxicity is found in retests, a plan for the conduct of a TRE must be submitted within 60 days; the objectives and minimum elements of a TRE are specified. The permittee is prohibited from discharging PCBs. TRC may not be discharged more than 2hrs/day unless a demonstration is conducted; simultaneous chlorination is permitted. The amperometric method for measuring TRC is specified. Notification to the State is required prior to beginning discharge from Outfall 005. Other special conditions include reiteration of standard conditions and WQ-based monitoring requirements at Outfalls 004 and 005; State operator licensing requirements; and miscellaneous definitions. The bases of the special conditions were not discussed.

Effective Date: N/A | Expiration Date: N/A | Abstract Date: 05/28/93

Facility Name: Tyson Foods, Grannis | **Permit Number:** AR0003018

Facility Description: Poultry processing | **SIC Code:** 2017

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	=	√	=	√	=	√	=	=	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	=	=	=	=	=	√	=	√	√

Abstract Information:
Complete; Outfall 001 (A and B created for abstracting purposes).

Outfall: 001A | **Receiving Water:** Unnamed trib. to Rolling Fork | **Treatment:** AnL+EQ+AS+Sed+Dis

Amount/Components:
0.351 MGD of process wastewater and storm water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	132.000000 lb/d 28.000000 mg/l	264.000000 lb/d 56.000000 mg/l		2/week	24hr fw composite
CBOD5	47.000000 lb/d 10.000000 mg/l	70.000000 lb/d 15.000000 mg/l		2/week	24hr fw composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	24hr fw composite
Cl	N/A Report mg/l	N/A Report mg/l	Units not specified	1/month	grab
DO	N/A 6.000000 mg/l	N/A N/A	See below	2/week	24hr fw composite
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	2/week	grab
Fecal streptococci (FS)	N/A Report	N/A Report	Units not specified	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	total
NH3-N	14.000000 lb/d 3.000000 mg/l	21.000000 lb/d 5.000000 mg/l	Seasonal; see below	2/week	24hr fw composite
O&G	47.000000 lb/d 10.000000 mg/l	70.000000 lb/d 15.000000 mg/l		2/week	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	2/week	grab
SO4	N/A Report mg/l	N/A Report mg/l		1/month	grab
TDS	N/A Report mg/l	N/A Report mg/l		1/month	grab
TRC	N/A N/A	N/A Report	Units not specified	2/week	grab
TSS	150.000000 lb/d 15.000000 mg/l	299.000000 lb/d 23.000000 mg/l		2/week	24hr fw composite

Limitations/Monitoring Basis:
This outfall was created to represent those limitations effective from the permit effective date through 09/30/95. The DO limit is a minimum and must be exceeded or equaled. NH3-N limits are seasonal. The limits shown above are effective from May to Oct. (summer); winter limits of 19 lb/d and 12 mg/l monthly avg., and 37 lb/d and 18 mg/l daily max. are effective from Nov. to Apr. Limitations for CBOD5, TSS, NH3-N, and DO are continued from the previous permit and are based on a desk top model of water quality. BOD5 loading limits are also continued from the past permit and are based on the proposed category's Development Document. BOD5 concentration limits are included to be consistent with other State permits and pursuant to 40 CFR 122.45(f)(2); using concentration limits encourages proper plant operations. Since the applicant reported TDS, chloride, and SO4 concentrations which exceed State WQSs, monitoring requirements were established. Compliance schedules for TDS, chloride and SO4 are set forth since

Facility Name: Tyson Foods, Grannis | Permit Number: AR0003018

Facility Description: Poultry processing | SIC Code: 2017

compliance cannot be attained immediately; 3 years is provided in accordance with State regulations. TRC levels are reported above goldbook values. However, since numerical State WQS have not been developed for TRC, no limitations have been placed in the permit. Monitoring 2/week is specified for TRC; monitoring and reporting may be discontinued after 2 years if no toxicity is evident. In accordance with National policy, Region 6 strategy, and the need to measure synergistic effects, WET testing is specified; chronic WET testing is required because the 7Q10 is less than 100 cfs and the dilution rate is less than 100. WET testing is required in accordance with EPA guidance manual procedures; 5 dilutions (including the critical dilution) and two species are specified; the species are indigenous to the area. Testing for all outfall parameters must be conducted concurrent to WET testing and reported with the toxicity results. Testing may be reduced or discontinued dependent on findings of no toxicity at the critical dilution; increased testing may also be specified if toxicity is found. Specific forms are provided for recording chronic WET results.

Outfall: 001B | Receiving Water: Unnamed trib. to Rolling Fork | Treatment: AnL+EQ+AS+Sed+Dis

Amount/Components:
0.351 MGD of process wastewater and storm water

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	132.000000 lb/d 28.000000 mg/l	264.000000 lb/d 57.000000 mg/l		2/week	24hr fw composite
CBOD5	47.000000 lb/d 10.000000 mg/l	70.000000 lb/d 15.000000 mg/l		2/week	24hr fw composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	24hr fw composite
Cl	N/A 15.000000 mg/l	N/A Report	See below	1/month	grab
DO	N/A 6.000000 mg/l	N/A N/A	See below	2/week	24hr fw composite
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	2/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	totalize
NH3-N	14.000000 lb/d 3.000000 mg/l	21.000000 lb/d 5.000000 mg/l	Seasonal; see below	2/week	24hr fw composite
O&G	47.000000 lb/d 10.000000 mg/l	70.000000 lb/d 15.000000 mg/l		2/week	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	2/week	grab
SO4	N/A 20.000000 mg/l	N/A Report mg/l	Units not specified	1/month	grab
TDS	N/A 128.000000 mg/l	N/A Report mg/l	Units not specified	1/month	grab
TRC	N/A N/A	N/A Report	Units not specified	2/week	grab
TSS	150.000000 lb/d 15.000000 mg/l	299.000000 lb/d 23.000000 mg/l		2/week	24hr fw composite

Limitations/Monitoring Basis:
This outfall was created to represent those limitations effective from 09/30/95 through the expiration date. Requirements and their bases are the same as Outfall 001A except for SO4, TDS, and chloride, limits for these parameters contained above become effective as described at Outfall 001A. The daily maximum units of chloride are not specified.

Special Conditions Basis:
Where toxicity is found in retests, a plan for the conduct of a TRE must be submitted within 60 days; the objectives and minimum elements of a TRE are specified. The permittee must comply with 40 CFR Part 257 sludge disposal requirements and specific sludge land application requirements itemized in the permit. These land application specifications include application rate limitations, sludge monitoring and reporting requirements, sludge application restrictions, recordkeeping requirements and other land management plan requirements. The permittee is

Facility Name: Tyson Foods, Grannis		Permit Number: AR0003018
Facility Description: Poultry processing		SIC Code: 2017
also required to maintain a sludge monitoring and reporting program, testing for specified parameters. Other special conditions include reiteration of standard conditions and State operator licensing requirements. The bases of the special conditions were not discussed.		
Effective Date: N/A	Expiration Date: N/A	Abstract Date: 05/28/93

Facility Name: Potlatch Corporation | Permit Number: AR0035823

Facility Description: Bleached kraft pulp and paper mill | SIC Code: 2611

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	√	-	-

Abstract Information:
Complete; Outfalls 001, 002, 003, and 004.

Outfall: 001 | Receiving Water: Mississippi River | Treatment: PC, Aer, Sed

Amount/Components:
14 MGD daily avg. of process wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	2702.000000 ug/d 51.000000 ppq	2702.000000 ug/d 51.000000 ppq		1/quarter	24hr fw composite
Acute WET	N/A Report	N/A Report	See below	1/quarter	24hr fw composite
BOD5	9003.000000 lb/d N/A	17308.000000 lb/d N/A		1/day	24hr fw composite
Flow	N/A Report	N/A Report	Units not specified	continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/day	grab
TSS	16357.000000 lb/d N/A	30432.000000 lb/d N/A		1/day	24hr fw composite

Limitations/Monitoring Basis:
According to the fact sheet, the permit represents a modification to include a limit for 2,3,7,8-TCDD. The 2,3,7,8-TCDD limit is incorporated based on a Statewide technology-based limit of 51 ppq as a daily maximum; mass limits are included pursuant to 40 CFR 122.45(f). Acute WET testing is required in accordance with EPA guidance manual procedures; 5 dilutions (including the critical dilution) and two species are specified. Testing may be reduced or discontinued dependent on findings of no toxicity at the critical dilution; increased testing may also be specified if toxicity is found. Specific forms are provided for recording acute WET results. A discussion of the bases of the remaining limitations and the monitoring requirements was not provided on an individual limit basis. The sources cited for the development of the permit included: State WQSs, 40 CFR Part 122, 124, and 125, and correspondence.

Outfall: 002 | Receiving Water: Borrow Pit | Treatment: Not specified.

Amount/Components:
0.5 MGD daily avg. of water treatment tank bottoms discharge.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Alkalinity	N/A N/A	N/A Report mg/l	By Phenolpthalein me thod	2/month	grab
Clarifying agents	N/A N/A	N/A Report mg/l		2/month	grab
Flow	N/A Report	N/A Report	Units not specified	continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	2/month	grab
TOC	N/A N/A	N/A Report mg/l		2/month	grab

Facility Name: Potlack Corporation | Permit Number: AR0035823

Facility Description: Bleached kraft pulp and paper mill | SIC Code: 2611

TSS	N/A N/A	N/A Report mg/l		2/month	grab

Limitations/Monitoring Basis:
A discussion of the bases of the limitations and the monitoring requirements was not provided.

Outfall: 003 | Receiving Water: Opossum Fork Creek | Treatment: Not specified.

Amount/Components:
0 MGD daily avg. (intermittent) of storm water runoff and cooling tower drainage.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report	N/A Report	Units not specified	1/day	estimate
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l	See below	2/month	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	2/month	grab
TOC	N/A N/A	N/A 55.000000 mg/l	See below	2/month	grab

Limitations/Monitoring Basis:
Monitoring must be conducted within the 1st hour of storm water discharge. A discussion of the bases of the limitations and the monitoring requirements was not provided.

Outfall: 004 | Receiving Water: Canal 81 | Treatment: Fil

Amount/Components:
0.42 MGD of sand filter backwash water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report	N/A Report	Units not specified	continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	2/month	grab
TSS	N/A 50.000000 mg/l	N/A 75.000000 mg/l		2/month	grab

Limitations/Monitoring Basis:
A discussion of the bases of the limitations and the monitoring requirements was not provided.

Special Conditions Basis:
Where toxicity is found in retests, a plan for the conduct of a TRE must be submitted within 60 days; the objectives and minimum elements of a TRE are specified. If TRE results point to BMPs as a solution for toxicity, certification of BMP implementation and monitoring which substantiate the elimination of toxicity must be submitted; where results point to a solution other than BMPs, an application for a permit modification and a milestone schedule for toxicity elimination must be submitted within 90 days. A compliance threshold of 10 ppt has been established for 2,3,7,8-TCDD. Analytical methods must detect to the level of the compliance threshold. For reporting purposes, zero should be used when analytical results are below the threshold. Requirements to monitor 2,3,7,8-TCDD pursuant to EPA's Dioxin Study analytical protocol is set forth. 2,3,7,8-TCDD sludge monitoring is also required 1/quarter. Other special conditions include reiterations of clarifying agent reporting requirements and several standard conditions; requirements to notify the State of the impending use of biocides andinc hydrosulfite; and a 2,3,7,8-TCDD pollutant-specific reopener clause. The bases of these conditions were not discussed.

Effective Date: N/A | Expiration Date: 11/30/94 | Abstract Date: 05/28/93

Facility Name: Viskase Corporation | Permit Number: AR0036544

Facility Description: Manufacturers cellulosic food casing | SIC Code: 2823

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	-	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	-

Abstract Information:
Partial; Outfalls 001, 101, and 002 (representative of 003).

Outfall: 001 | Receiving Water: Mississippi River | Treatment: Neut+Sed or AS

Amount/Components:
1.06 MGD treated process wastestreams.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	24hr fw composite
BOD5	235.000000 lb/d N/A	470.000000 lb/d N/A		2/week	24hr fw composite
COD	784.000000 lb/d N/A	1568.000000 lb/d N/A		2/week	24hr fw composite
Flow	N/A Report	N/A Report	Units not specified	continuous	record
NH3-N	470.000000 lb/d N/A	941.000000 lb/d N/A		2/week	24hr fw composite
pH	N/A Report	N/A Report	Between 6.0 su and 9 .0 su	1/day	grab
TSS	314.000000 lb/d N/A	627.000000 lb/d N/A		2/week	24hr fw composite

Limitations/Monitoring Basis:
The limitations are continued from the previous permit based on the permit writer's judgement. The previous bases of these limitations and the current bases of the monitoring requirements were not described on an individual limit basis. The sources cited for the development of the permit included: State WQSs, 40 CFR Part 122 and 125, and EPA's Gold Book. In accordance with National Policy, Region 6 strategy, and the need to measure synergistic effects, WET testing is specified; acute WET testing is required because the 7Q10 is less than 100 cfs and the dilution ratio is more than 100:1. WET testing is required in accordance with EPA guidance manual procedures; 5 dilutions (including the critical dilution) and two species are specified since they are indigenous to the area. Testing for all outfall parameters must be conducted concurrent to WET testing. Testing may be reduced or discontinued dependent on findings of no toxicity at the critical dilution and 1/2 the critical dilution; increased testing may also be specified if toxicity is found. Specific forms are provided for recording acute WET results.

Outfall: 002 | Receiving Water: Tyronza River | Treatment: None

Amount/Components:
Unspecified amount of storm water runoff.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report	N/A Report	Units not specified	1/day	estimate
O&G	N/A N/A	N/A 15.000000 mg/l	See below	1/day	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/day	grab

Facility Name: Viskase Corporation					**Permit Number:** AR0036544
Facility Description: Manufacturers cellulosic food casing					**SIC Code:** 2823
TOC	N/A N/A	N/A 50.000000 mg/l	See below	1/day	grab

Limitations/Monitoring Basis:
The limitations are continued from the previous permit based on the permit writer's judgement. Samples must be taken within the first hour of storm water discharge but are only required during daylight hours when the plant is operating. The previous bases of these limitations and the current bases of the monitoring requirements were not described.

Outfall: 101 | **Receiving Water:** Internal outfall via 001 | **Treatment:** Not specified.

Amount/Components:
Unspecified amount of phenol containing water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report	N/A Report	Units not specified	1/day	estimate
Phenols	0.100000 lb/d N/A	0.200000 lb/d N/A		1/week	24hr fw composite

Limitations/Monitoring Basis:
The limitations are continued from the previous permit based on the permit writer's judgement. The previous bases of these limitations and the current bases of the monitoring requirements were not described.

Special Conditions Basis:
Where toxicity is found in retests, a plan for the conduct of a TRE must be submitted within 60 days; the objectives and minimum elements of a TRE are specified. Notification in writing to the State is required 30 days prior to beginning discharge of phenols through Outfall 101; Outfall 101 is inactive until notification is provided. The permittee must comply with 40 CFR Part 257 sludge disposal requirements. Other special conditions include reiteration of standard conditions; sludge disposal information; State operator licensing requirements; and miscellaneous definitions. The bases of the special conditions were not discussed.

Effective Date: 01/01/90 **Expiration Date:** 12/31/94 **Abstract Date:** 05/28/93

Facility Name: Libbey Owens Ford, Lathrop 10 | Permit Number: CA0004839

Facility Description: Manufacturer of laminated and tempered auto glass | SIC Code: 3211

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	√	-	-	√	√

Abstract Information:
Complete; Outfalls 001, 001A, 002, 003, and 007.

Outfall: 001 | Receiving Water: San Joaquin River | Treatment: Sed

Amount/Components:
Max. of 0.83 MGD of process wastewaters, domestic waste, noncontact cooling waters, HF acid solutions, storm runoff, and groundwater infiltration.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	3.200000 lb/d 15.000000 mg/l	6.300000 lb/d 30.000000 mg/l		1/week	24 hr composite
Chronic WET	N/A N/A	N/A Report	See below	1/month	Grab
Co	N/A Report mg/l	N/A Report mg/l	See below	1/month	Grab
Coliform (T)	N/A 23.000000	N/A 500.000000	Units: #/100 ml	1/month	Grab
Cr	N/A Report mg/l	N/A Report mg/l	See below	1/month	Grab
DO	N/A Report mg/l	N/A Report mg/l	See below		
Flow	N/A Report MGD	N/A 2.100000 MGD		Daily	Continuous
Fluoride	N/A Report mg/l	N/A 23.000000 mg/l		1/day	Grab
Ni	N/A Report mg/l	N/A Report mg/l	See below	1/month	Grab
O&G	Report lb/d 10.000000 mg/l	Report lb/d 15.000000 mg/l		1/week	24 hr composite
Other	N/A Report mg/l	N/A Report mg/l	Standard minerals	1/year	Grab
Pb	N/A Report mg/l	N/A Report mg/l	See below	1/month	Grab
pH	N/A Report	N/A Report	Between 6.5 su and 8 .5 su	1/2 weeks	Grab
Se	N/A Report mg/l	N/A Report mg/l	See below	1/month	Grab
Sn	N/A Report mg/l	N/A Report mg/l	See below	1/month	Grab
SS	N/A 0.100000 ml/l	N/A 0.200000 ml/l		1/2 weeks	Grab
TDS	N/A Report mg/l	N/A Report mg/l		1/week	Grab
Temp.	N/A Report	N/A 86.000000	Units: degrees Farenheit	1/day	Grab

Facility Name: Libbey Owens Ford, Lathrop 10					Permit Number: CA0004839
Facility Description: Manufacturer of laminated and tempered auto glass					SIC Code: 3211
TRC	N/A Report mg/l	N/A 0.100000 mg/l			
TSS	135.000000 lb/d 30.000000 mg/l	162.000000 lb/d 60.000000 mg/l		1/week	24 hr composite

Limitations/Monitoring Basis:
ELGs mass based limitations for TSS were calculated using the total maximum production of the facility (750 tons/day float glass, 150,000 sq. ft./day tempered automotive glass, 100,000 sq. ft./day laminated glass) and 25,000 GPD of domestic wastewater pursuant to the glass manufacturing point source category (40 CFR Part 426, Subparts E, F, and G) and 40 CFR Part 133 secondary treatment regulations. All other limitations have been assumedto be based on water quality considerations established as part of the Water Quality Plan, 2nd Edition for the Sacramento-San Joaquin Delta Basin. The rationale for the development of monitoring requirements was not provided and monitoring requirements for the discharge of TRC or DO to the receiving stream were not specified in the permit. Survival of test fishes in 96-hr bioassay of undiluted effluent shall be no less than: minimum forany one bioassay (70%) and the median for any three or more consecutive bioassays (90%).

Outfall: 001A | **Receiving Water:** Internal outfall to 001 | **Treatment:** None

Amount/Components:
Maximum flow of 0.3 MGD of wastewater from the production of architectural float glass.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
O&G	2.100000 lb/d N/A	2.100000 lb/d N/A	0.0028 lb/ton of pro duct		
Other	0.080000 lb/d N/A	0.080000 lb/d N/A	P-.0001 lb/ton of pr oduct		
TSS	3.000000 lb/d N/A	3.000000 lb/d N/A	0.004 lb/ton of prod uct		

Limitations/Monitoring Basis:
TSS, O&G, and P production-based ELGs were based on 40 CFR Part 426 Subpart E. Mass-based ELGs were calculated using a maximum production rate of 750 tons/day of float glass. Mass limits must be calculated on a weekly basis. Monitoring requirements were not provided.

Outfall: 002 | **Receiving Water:** Internal outfall to 001 | **Treatment:** API

Amount/Components:
Maximum flow of 0.4 MGD of wastewater from the production of tempered automotive glass.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
O&G	19.500000 lb/d N/A	19.500000 lb/d N/A	0.1316/1060 sqft pro duct		
TSS	35.400000 lb/d N/A	56.600000 lb/d N/A	See below		

Limitations/Monitoring Basis:
TSS and O&G production-based ELGs were based on 40 CFR Part 426 Subpart F. Mass-based ELGs were calculated using a maximum production rate of 150,000 sq. ft./day of laminated automotive glass. Mass limits must be calculated on a weekly basis. Monitoring requirements were not provided.

Facility Name: Libbey Owens Ford, Lathrop 10 | Permit Number: CA0004839

Facility Description: Manufacturer of laminated and tempered auto glass | SIC Code: 3211

Outfall: 003 | Receiving Water: Internal outfall to 001 | Treatment: API

Amount/Components:
Maximum flow of 0.4 MGD of wastewater from the production of laminated automotive glass.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
O&G	36.000000 lb/d N/A	36.000000 lb/d N/A	0.36 lb/1000 sqft pr oduct		
Other	22.000000 lb/d N/A	22.000000 lb/d N/A	P-.22 lb/1000 sqft p roduc		
TSS	90.000000 lb/d N/A	90.000000 lb/d N/A	0.9 lb/1000 sqft pro duct		

Limitations/Monitoring Basis:
TSS, P, and O&G production-based ELGs were based on 40 CFR Part 426 Subpart G. Mass-based ELGs were calculated using a maximum production rate of 100,000 sq. ft./day of laminated automotive glass. Mass limits must be calculated on a weekly basis. Monitoring requirements were not provided.

Outfall: 007 | Receiving Water: San Joaquin River | Treatment: N/A

Amount/Components:
Maximum of 0.83 MGD combined discharge from Outfalls 001-006.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	3.200000 lb/d 15.000000 mg/l	6.300000 lb/d 30.000000 mg/l			
Coliform (T)	N/A 23.000000	N/A 500.000000	Units: MPN/ 100 ml		
Fluoride	N/A N/A	N/A 23.000000 mg/l			
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l			
SS	N/A 0.100000 ml/l	N/A 0.200000 ml/l			
TRC	N/A N/A	N/A 0.100000 mg/l			
TSS	135.000000 lb/d 30.000000 mg/l	162.000000 lb/d 60.000000 mg/l			

Limitations/Monitoring Basis:
See limitations/monitoring basis for each of the outfalls. Monitoring requirements were not provided.

Special Conditions Basis:
Monitoring requirements and limitations (for some parameters) were established for the discharge of wastewaters to land (flow, BOD, TSS, TDS, O&G, DO, Se, Cr, Ni, Co, and Coliform (T)), upstream and downstream water monitoring (TRC, temperature, turbidity, DO, and F), water supply monitoring (P, standard minerals, and TDS), and sludge monitoring (Cd, Cr, Cu, Pb, Ni, Se, Sn, and Zn). Reclaimed wastewater used for lawn irrigation shall meet criteria contained in Title 22, California Code of Regulations. The DO content of the holding ponds used for land application of wastewaters shall not be less than 1.0 mg/l for 16 hours in any 24-hr period. The discharge shall not increase the turbidity of the receiving water by more than 10 percent over background levels. The discharge shall not create a zone defined by water temperatures of more than 1 degree Farenheit above natural receiving water temperature which exceeds 25 percent of the cross sectional area of the San Joaquin River at any point nor exceed the background receiving water temperature by more than 40 degrees Farenheit. The fluoride limitation is based on water quality considerations. Discharges of fluoride process wastewaters are prohibited from April 15 to June 15, the critical time for spawning and migration of fish in the San Joaquin River. Monitoring for fluoride, Se, Cr, Ni, and Co shall only occur when constituents are in use. O&G shall be sampled for using the trichlorofluorethane extraction method. Land application requirements are consistent with the approved Operation Plan for Land Disposal of Effluent. The discharger shall submit an updated Operations Plan for Land Disposal of Effluent by June 1991. Within 120 days of permit issuance, the facility shall submit a plan to limit mineralization in the discharge to

Facility Name: Libbey Owens Ford, Lathrop 10		Permit Number: CA0004839
Facility Description: Manufacturer of laminated and tempered auto glass		SIC Code: 3211
surface water. The discharger shall implement an effluent toxicity program in accordance with EPA procedures within 60 days of permit issuance and within 60 days of Board approval implement the approved biotoxicity monitoring program. Compliance with the P limitation shall be based on total P in the effluent less the amount of P in the supply and groundwater infiltration waters at the facility.		
Effective Date: 02/22/91	Expiration Date: 02/01/96	Abstract Date: 04/07/93

Facility Name: Advanced Micro Devices, Inc. | Permit Number: CA0028797

Facility Description: Semiconductor manufacturer | SIC Code: 3674

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	-

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | Receiving Water: Calabazas Creek | Treatment: AirS, Fil

Amount/Components:
75,000 to 150,000 GPD contaminated groundwater from eight on-site extraction wells and 280,000 GPD of extracted groundwater from two off-site systems.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	N/A Report ug/l	N/A 5.000000 ug/l		1/month	Grab
1,2-Cis-Dichloroethylene	N/A Report ug/l	N/A 5.000000 ug/l		1/month	Grab
1,2-Trans-Dichloroethylene	N/A Report ug/l	N/A 5.000000 ug/l		1/month	Grab
Ag	N/A Report ug/l	N/A 2.300000 ug/l		1/year	grab
As	N/A Report ug/l	N/A 20.000000 ug/l		1/year	Grab
BOD5	Report kg/d Report mg/l	Report kg/d Report mg/l		1/year	Grab
Cd	N/A Report ug/l	N/A 10.000000 ug/l		1/year	Grab
Chronic WET	N/A N/A	N/A Report	% survival	1/year	Grab
CN	N/A Report ug/l	N/A 25.000000 ug/l		1/year	grab
Cr+6	N/A Report ug/l	N/A 11.000000 ug/l		1/year	Grab
Cu	N/A Report ug/l	N/A 20.000000 ug/l		1/year	Grab
Dichlorobenzene	N/A Report ug/l	N/A 5.000000 ug/l		1/year	grab
DO	N/A Report mg/l	N/A Report mg/l	5.0 mg/l minimum	not given	not given
Ethylbenzene	N/A Report ug/l	N/A 5.000000 ug/l		1/year	Grab
Flow	N/A Report MGD	N/A Report MGD		Continuous	Recorder
Hg	N/A Report ug/l	N/A 1.000000 ug/l		1/year	grab
Methylene chloride	N/A Report ug/l	N/A 5.000000 ug/l		1/month	Grab
NH3-N	Report kg/d Report mg/l	Report kg/d 0.400000 mg/l	0.025 mg/l annual median	Variable	Grab

Facility Name: Advanced Micro Devices, Inc. Permit Number: CA0028797

Facility Description: Semiconductor manufacturer SIC Code: 3674

Ni	N/A Report ug/l	N/A 7.100000 ug/l		1/year	Grab
Other	N/A Report ug/l	N/A 5.000000 ug/l	Trichlorofluoromethane	1/month	Grab
Pb	N/A Report ug/l	N/A 5.600000 ug/l		1/year	Grab
pH	N/A Report	N/A Report	Between 6.5 su and 8.5 su	1/month	Grab
TDS	N/A Report mg/l	N/A Report mg/l		1/quarter	Grab
Temp.	N/A Report	N/A Report	Units: degrees Celcius	1/quarter	Grab
Tetrachloroethylene	N/A Report ug/l	N/A 5.000000 ug/l		1/month	grab
TPH	N/A Report ug/l	N/A 50.000000 ug/l		1/year	Grab
Trichlorobenzene	N/A Report ug/l	N/A 5.000000 ug/l		1/year	grab
Vinyl chloride	N/A Report ug/l	N/A 0.500000 ug/l		1/month	Grab
VOCs (T)	N/A Report ug/l	N/A 10.000000 ug/l		1/month	Grab
Xylenes	N/A Report ug/l	N/A 5.000000 ug/l		1/year	Grab
Zn	N/A Report ug/l	N/A 58.000000 ug/l		1/year	Grab

Limitations/Monitoring Basis:

Effluent limitations are based on the Water Quality Control Plan for the San Francisco Bay Region (Basin Plan), State and USEPA plans and policies, BATEA, and best technical judgement. EPA Region 9's draft guidance "NPDES Permit Limitations for the Discharge of Contaminated Groundwater: Guidance Document" was considered and the San Francisco Bay Regional Water Quality Control Board Internal Memorandum "Proposed NPDES Permit Limits for Common Organic Pollutants Found at Service Stations and other Groundwater Cleanup Sites" was also used. The rationale for the prescribed monitoring requirements was not contained in the fact sheet or permit. Toxicity limits are as follows: the survival of rainbow trout in a 96-hr bioassay of the effluent shall be a median of 90% survival and a 90 percentile of not less than 70%. In addition to the DO limit, the median DO concentration for any three consecutive months shall not be less than 80% of the DO content at saturation. The pH shall not cause the receiving water to vary from normal ambient pH levels by more than 0.5 units. The monitoring of flow shall be the influent flow to the treatment system from the groundwater extraction wells. Monitoring for all other parameters shall be taken at a point in the discharge immediately prior to discharge into the storm drain tributary of Calabazas Creek. Additional monitoring requirements were imposed in the permit between the air stripper towers and the carbon adsorption unit, and at a point in the storm drain to its flow into Calabazas Creek. NH3-N shall be analyzed and unionized NH3 calculated whenever fish bioassay test results fail to meet the specified percent survival. The daily maximum limitations contained in the permit are enforced as instantaneous maximum limitations. Total VOCs are the total of constituents for EPA 601 analytes.

Special Conditions Basis:

None.

Effective Date: 12/12/90 Expiration Date: 12/12/95 Abstract Date: 04/07/93

Facility Name: Granite Construction Co-Felton | Permit Number: CA0048755

Facility Description: Open pit granite quarry and processing facility | SIC Code: 1411

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	-	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	√	-	-	-	-	√	-

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | Receiving Water: Gold Gulch and/or Majors Creek | Treatment: Sed

Amount/Components:
Unspecified amt. of storm runoff and material washwaters from the overburden stockpile area, quarry pit settling pond, asphalt batch plant & stockpile

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/month	Record
SS	N/A Report ml/l	N/A 0.300000 ml/l		3/week	Grab
TSS	N/A Report mg/l	N/A 100.000000 mg/l		3/week	Grab

Limitations/Monitoring Basis:
No justification was provided in the rationale for permit development, but effluent limitations seem to be based on water quality considerations, as contained in the Water Quality Control Plan, Central Coastal Basin. The discharge shall not cause coloration in Gold Gulch and Majors Creek greater than 15 units or 10% above natural background color, whichever is greater.

Special Conditions Basis:
By September 15th of every year, the permittee shall inspect, install, and have in proper operational condition all erosion and sediment control systems necessary to assure compliance with the permit. The pH of the receiving waters shall not be depressed below 7.0 su, raised above 8.3 su, or change more than 0.5 su. The discharge of any wastes other than material washwater and stormwater runoff from the quarry site is prohibited.

Effective Date: 01/10/92 | Expiration Date: 01/01/97 | Abstract Date: 04/03/93

Facility Name: Palo Verde Irrigation District | **Permit Number:** CA0105139

Facility Description: Ground water treatment facility | **SIC Code:** 4971

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	-

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | **Receiving Water:** Lovekin Drain to Colorado R. | **Treatment:** AirS, gravity separation

Amount/Components:
Average daily flow of up to 190 gallons per minute of treated groundwater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/year	Grab
Benzene	N/A Report ug/l	N/A 1.000000 ug/l		1/month	Grab
Ethylbenzene	N/A Report ug/l	N/A 680.000000 ug/l		1/month	Grab
Flow	N/A Report GPD	N/A Report GPD		Continuous	Recorder
Other	N/A Report ug/l	N/A Report ug/l	Petroleum hydrocarbons(T)	1/month	Grab
Pb	N/A Report ug/l	N/A 50.000000 ug/l		1/month	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/month	Grab
TDS	N/A N/A	N/A Report		1/month	Grab
Temp.	N/A N/A	N/A Report	Units: degrees Celsius	1/month	Grab
Toluene	N/A Report ug/l	N/A 100.000000 ug/l		1/month	Grab
Xylenes	N/A Report ug/l	N/A 1750.000000 ug/l		1/month	Grab

Limitations/Monitoring Basis:
Effluent limitations are based upon State Department of Health Service action levels, primary drinking water standards, USEPA's water quality criteria, and best professional engineering judgement. The rationale for monitoring was not provided. The effluent shall cause no acute toxicity in the receiving stream. Acute toxicity is defined as less than 90% survival, 50% of the time, and less than 75% survival, 10% of the time in a 96-hour sttic or continuous flow test.

Special Conditions Basis:
Influent monitoring shall consist of sampling for all identified parameters contained in 40 CFR Part 136 test method 601 and benzene, toluene, xylene, and ethylbenzene. At the time of permit issuance, the permittee is required to sample once during the first and fifth day of operation for benzene, toluene, xylene, ethylbenzene, TDS, and total petroleum hydrocarbons. Bioassays are to be performed quarterly for the first year. pH and temperature are to be monitored daily for 5 days and monthly thereafter. Priority metals and the parameters contained in 40 CFR Part 136 Test Method 601 are to be sampled once during the first day of operation and 2/year thereafter. Priority metals are those defined in 40 CFR Part 136.

Effective Date: 01/22/92 | **Expiration Date:** 01/22/97 | **Abstract Date:** 04/06/93

Facility Name: Climax Molybdenum Co.Henderson | Permit Number: CO0000230

Facility Description: Molybdenite mine dewatering and mill discharge | SIC Code: 1061

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	√	√	√

Abstract Information:
Complete; Outfalls 001(A, B, C, D, E, and F created for abstracting purposes; also represents 002), 003, 004(A and B created for abstracting purposes), and 005.

Outfall: 001A | Receiving Water: Lower Urad Reservoir | Treatment: Sed

Amount/Components:
Average flow of 1.7 MGD consisting of mine dewatering, sanitary wastewater, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report %	See below	1/quarter	grab
Ag (DS)	N/A 0.005000 mg/l	N/A Report mg/l	Potentially dissolved	1/week	grab
Al (DS)	N/A Report mg/l	N/A Report mg/l	Potentially dissolved	1/month	grab
As (DS)	N/A 0.223000 mg/l	N/A 0.499000 mg/l	Potentially dissolved	1/week	grab
Cd (DS)	N/A 0.010000 mg/l	N/A Report mg/l	Potentially dissolved	1/month	grab
Chronic WET	N/A N/A	N/A Report %	See below	2/year	8hr fw composite
Cr+6	N/A 0.016000 mg/l	N/A 0.022000 mg/l	Potentially dissolved	1/week	grab
Cu (DS)	N/A 0.030000 mg/l	N/A 0.042000 mg/l	Potentially dissolved	1/week	grab
Fe (TR)	N/A 1.438000 mg/l	N/A Report mg/l		1/month	grab
Flow	N/A 1.700000 MGD	N/A Report MGD		1/week	instantaneous
Hg (T)	N/A 0.001000 mg/l	N/A 0.002000 mg/l		1/week	grab
Mn (TR)	N/A 18.017000 mg/l	N/A Report mg/l		1/week	grab
Mo (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ni (DS)	N/A 0.239000 mg/l	N/A 2.070000 mg/l	Potentially dissolved	1/week	grab
O&G	N/A N/A	N/A 10.000000 mg/l	No visible sheen	1/week	grab/visual
Pb (DS)	N/A 0.012000 mg/l	N/A 0.294000 mg/l	Potentially dissolved	1/week	grab
pH	N/A N/A	N/A Report	Between 6.5 su and 9.2 su	1/week	grab
Radium (T)	N/A Report	N/A Report	Units: pCi/l	1/month	grab

Facility Name: Climax Molybdenum Co.Henderson					Permit Number: CO0000230
Facility Description: Molybdenite mine dewatering and mill discharge					SIC Code: 1061
TSS	N/A 30.000000 mg/l	N/A N/A	45 mg/l 7-day averag e	1/week	grab
U (DS)	N/A Report mg/l	N/A Report mg/l	Potentially dissolve d	1/month	grab
Zn (DS)	N/A 1.538000 mg/l	N/A Report mg/l	Potentially dissolve d	1/week	grab

Limitations/Monitoring Basis:
Outfall 001A created to represent limits which apply during the months of October through May, only, from the effective date of the permit through 7/8/93. Limits for Cu, Pb, Mo, TSS, and Hg based on ELGs in 40 CFR Part 440 Subpart J. Limits for Zn, Cd, and Mn based on WQSs and consistent with TMDLs for Clear Creek. State "Regulations for Effluent Limitations" (10.1.0) used for O&G limits. Limits for all metals are for "potentially dissolved" metal fractions as defined in the "Basic Standards and Methodologies for Surface Water" (3.1.0). The pH limit is based on the previous permit, analysis of downstream pH, and Fed Reg 440.131(d). Limits for Fe and Ni are based on WQSs. Limits for Ag based on historical data until WQSs are in effect. Monitoring was set for Al and radium because they were detected downstream. WET testing consistent with "Regulations for the State Disharge Permit System" (Section 6.9.7). Beginning July July 1, 1995, the IWC will vary seasonally: Oct-May, IWC 63%; Jun-Jul, IWC 21%; and Aug-Sep, IWC 44%. Acute toxicity limit based on reasonable potential associated with discharge from mine containing heavy metals. WET testing is to be conducted following the EPA guidance document. Acute WET testing is to include 2 species, 48-hour and 96-hour tests, using replacement static tests. If individual test shows toxicity at a concentration less than or equal to the instream waste concentration (seasonal value given in the permit) or 50% species mortality in any dilution, the permittee must notify the permitting authority and begin accelerated testing. under the direction of the permitting authority, the permittee will perform a preliminary toxicity investigation and/or a TRE and/or a toxicity control program. Chronic WET testing is to be conducted for one year using static replacement tests and 2 species, following the EPA guidance document. The potentially dissolved metal fraction is defined as an analytical method in a footnote and a citation is provided.

Outfall: 001B | **Receiving Water:** Lower Urad Reservoir | **Treatment:** Sed

Amount/Components:
Average flow of 1.7 MGD consisting of mine dewatering, sanitary wastewater, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report %		1/quarter	See permit protocol
Ag (DS)	N/A 0.005000 mg/l	N/A Report mg/l	Potentially dissolve d	1/week	grab
Al (DS)	N/A Report mg/l	N/A Report mg/l	Potentially dissolve d	1/month	grab
As (DS)	N/A 0.540000 mg/l	N/A 1.163000 mg/l	Potentially dissolve d	1/week	grab
Cd (DS)	N/A 0.028000 mg/l	N/A Report mg/l	Potentially dissolve d	1/month	grab
Chronic WET	N/A N/A	N/A Report %		2/year	See permit protocol
Cr+6	N/A 0.040000 mg/l	N/A 0.052000 mg/l	Potentially dissolve d	1/week	grab
Cu (DS)	N/A 0.026000 mg/l	N/A 0.033000 mg/l	Potentially dissolve d	1/week	grab
Fe (TR)	N/A 3.332000 mg/l	N/A Report mg/l		1/month	grab
Flow	N/A 1.600000 MGD	N/A Report MGD		1/week	instantaneous
Hg (T)	N/A 0.001000 mg/l	N/A 0.002000 mg/l		1/week	grab
Mn (TR)	N/A 49.337000 mg/l	N/A Report mg/l		1/week	grab

Facility Name: Climax Molybdenum Co.Henderson | Permit Number: CO0000230

Facility Description: Molybdenite mine dewatering and mill discharge | SIC Code: 1061

Mo (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ni (DS)	N/A 0.265000 mg/l	N/A 2.278000 mg/l	Potentially dissolve d	1/week	grab
O&G	N/A N/A	N/A 10.000000 mg/l	No visible sheen	1/week	grab/visual
Pb (DS)	N/A 0.005000 mg/l	N/A 0.105000 mg/l	Potentially dissolve d	1/week	grab
pH	N/A N/A	N/A Report	Between 6.5 su and 9 .2 su	1/week	grab
Radium (T)	N/A Report	N/A Report	Units: pCi/l	1/month	grab
TSS	N/A 30.000000 mg/l	N/A N/A	45 mg/l 7-day averag e	1/week	grab
U (DS)	N/A Report mg/l	N/A Report mg/l	Potentially dissolve d	1/month	grab
Zn (DS)	N/A 4.231000 mg/l	N/A Report mg/l	Potentially dissolve d	1/week	grab

Limitations/Monitoring Basis:
Outfall 001B was created to represent limits which apply during the months of June and July, only from the effective date of the permit through 7/8/93. See Limits/Monitoring Basis Discussion for Outfall 001A.

Outfall: 001C | Receiving Water: Lower Urad Reservoir | Treatment: Sed

Amount/Components:
Average flow of 1.7 MGD consisting of mine dewatering, sanitary wastewater, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report %		1/quarter	See permit protocol
Ag (DS)	N/A 0.005000 mg/l	N/A Report mg/l	Potentially dissolve d	1/week	grab
Al (DS)	N/A Report mg/l	N/A Report mg/l	Potentially dissolve d	1/month	grab
As (DS)	N/A 0.289000 mg/l	N/A 0.617000 mg/l	Potentially dissolve d	1/week	grab
Cd (DS)	N/A 0.014000 mg/l	N/A Report mg/l	Potentially dissolve d	1/month	grab
Chronic WET	N/A N/A	N/A Report %		2/year	See permit protocol
Cr+6	N/A 0.021000 mg/l	N/A 0.028000 mg/l	Potentially dissolve d	1/week	grab
Cu (DS)	N/A 0.023000 mg/l	N/A 0.029000 mg/l	Potentially dissolve d	1/week	grab
Fe (TR)	N/A 1.832000 mg/l	N/A Report mg/l		1/month	grab
Flow	N/A 1.600000 MGD	N/A Report MGD		1/week	instantaneous
Hg (T)	N/A 0.001000 mg/l	N/A 0.002000 mg/l		1/week	grab

Facility Name: Climax Molybdenum Co.Henderson					Permit Number: CO0000230
Facility Description: Molybdenite mine dewatering and mill discharge					SIC Code: 1061
Mn (TR)	N/A 25.024000 mg/l	N/A Report mg/l		1/week	grab
Mo (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ni (DS)	N/A 0.200000 mg/l	N/A 1.647000 mg/l	Potentially dissolved	1/week	grab
O&G	N/A N/A	N/A 10.000000 mg/l	No visible sheen	1/week	grab/visual
Pb (DS)	N/A 0.006000 mg/l	N/A 0.132000 mg/l	Potentially dissolved	1/week	grab
pH	N/A N/A	N/A Report	Between 6.5 su and 9.2 su	1/week	grab
Radium (T)	N/A Report	N/A Report	Units: pCi/l	1/month	grab
TSS	N/A 30.000000 mg/l	N/A N/A	45 mg/l 7-day average	1/week	grab
U (DS)	N/A Report mg/l	N/A Report mg/l	Potentially dissolved	1/month	grab
Zn (DS)	N/A 2.131000 mg/l	N/A Report mg/l	Potentially dissolved	1/week	grab

Limitations/Monitoring Basis:
Outfall 001C was created to represent limits which apply during the months of August and September, only from the effective date of the permit through 7/8/93. See Limits/Monitoring Basis Discussion for Outfall 001A.

Outfall: 001D | Receiving Water: Lower Urad Reservoir | Treatment: Sed

Amount/Components:
Average flow of 1.7 MGD consisting of mine dewatering, sanitary wastewater, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report %	See below for limits.	1/quarter	See permit protocol
Ag (DS)	N/A 0.000300 mg/l	N/A 0.006500 mg/l	Potentially dissolved	1/week	grab
Al (DS)	N/A 0.160000 mg/l	N/A 1.100000 mg/l	Potentially dissolved	1/month	grab
As (DS)	N/A 0.200000 mg/l	N/A 0.440000 mg/l	Potentially dissolved	1/week	grab
Cd (DS)	N/A 0.002400 mg/l	N/A 0.009000 mg/l	Potentially dissolved	1/month	grab
Chronic WET	N/A N/A	N/A Report %		2/year	See permit protocol
Cr+6	N/A 0.015000 mg/l	N/A 0.020000 mg/l	Potentially dissolved	1/week	grab
Cu (DS)	N/A 0.027000 mg/l	N/A 0.038000 mg/l	Potentially dissolved	1/week	grab
Fe (TR)	N/A 1.300000 mg/l	N/A Report mg/l		1/month	grab
Flow	N/A 2.610000 MGD	N/A Report MGD		1/week	instantaneous

Facility Name: Climax Molybdenum Co.Henderson | Permit Number: CO0000230

Facility Description: Molybdenite mine dewatering and mill discharge | SIC Code: 1061

Hg (T)	N/A 0.001000 mg/l	N/A 0.002000 mg/l		1/week	grab
Mo (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ni (DS)	N/A 0.239000 mg/l	N/A 2.070000 mg/l	Potentially dissolved	1/week	grab
O&G	N/A N/A	N/A 10.000000 mg/l	No visible sheen	1/week	grab/visual
Pb (DS)	N/A 0.011000 mg/l	N/A 0.270000 mg/l	Potentially dissolved	1/week	grab
pH	N/A N/A	N/A Report	Between 6.5 su and 9.2 su	1/week	grab
Radium (T)	N/A Report	N/A Report	Units: pCi/l; see below.	1/month	grab
TSS	N/A 30.000000 mg/l	N/A N/A	45 mg/l 7-day avg.	1/week	grab
U (DS)	N/A 4.247000 mg/l	N/A 6.107000 mg/l	Potentially dissolved	1/month	grab
Zn (DS)	N/A 0.258000 mg/l	N/A 0.259000 mg/l	Potentially dissolved	1/week	grab

Limitations/Monitoring Basis:
Outfall 001D was created to represent limits which apply during the months October through May, only from 7/9/93 through 9/30/97. See Limits/Monitoring Basis Discussion for Outfall 001A. Limits for radium begin October 1, 1994. October through May monthly average limits will be 7.476 pCi/l and the permittee is required to report the daily maximum.

Outfall: 001E | Receiving Water: Lower Urad Reservoir | Treatment: Sed

Amount/Components:
Average flow of 1.7 MGD consisting of mine dewatering, sanitary wastewater, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report %	See below for limits.	1/quarter	See permit protocol
Ag (DS)	N/A 0.000090 mg/l	N/A 0.002000 mg/l	Potentially dissolved	1/week	grab
Al (DS)	N/A 0.260000 mg/l	N/A 2.600000 mg/l	Potentially dissolved	1/month	grab
As (DS)	N/A 0.500000 mg/l	N/A 1.060000 mg/l	Potentially dissolved	1/week	grab
Cd (DS)	N/A 0.001600 mg/l	N/A 0.005300 mg/l	Potentially dissolved	1/month	grab
Chronic WET	N/A N/A	N/A Report %		2/year	See permit protocol
Cr+6	N/A 0.037000 mg/l	N/A 0.047000 mg/l	Potentially dissolved	1/week	grab
Cu (DS)	N/A 0.021000 mg/l	N/A 0.028000 mg/l	Potentially dissolved	1/week	grab
Fe (TR)	N/A 3.100000 mg/l	N/A Report mg/l		1/month	grab
Flow	N/A 2.490000 MGD	N/A Report MGD		1/week	instantaneous

Facility Name: Climax Molybdenum Co.Henderson					Permit Number: CO0000230
Facility Description: Molybdenite mine dewatering and mill discharge					SIC Code: 1061
Hg (T)	N/A 0.001000 mg/l	N/A 0.002000 mg/l		1/week	grab
Mo (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ni (DS)	N/A 0.265000 mg/l	N/A 2.278000 mg/l	Potentially dissolve d	1/week	grab
O&G	N/A N/A	N/A 10.000000 mg/l	No visible sheen	1/week	grab/visual
Pb (DS)	N/A 0.001100 mg/l	N/A 0.096000 mg/l	Potentially dissolve d	1/week	grab
pH	N/A N/A	N/A Report	Between 6.5 su and 9 .2 su	1/week	grab
Radium (T)	N/A Report	N/A Report	Units: pCi/l See be low.	1/month	grab
TSS	N/A 30.000000 mg/l	N/A N/A	45 mg/l 7-day averag e	1/week	grab
U (DS)	N/A 3.066000 mg/l	N/A 4.299000 mg/l	Potentially dissolve d	1/month	grab
Zn (DS)	N/A 0.194000 mg/l	N/A 0.197000 mg/l	Potentially dissolve d	1/week	grab

Limitations/Monitoring Basis:
Outfall 001E was created to represent limits which apply during the months of June and July, only from 7/9/93 through 9/30/97. See Limits/Monitoring Basis Discussion for Outfall 001A. Limits for radium begin October 1, 1994. The monthly average limit for June and July will be 18.188 pCi/l and the permittee will be required to report the daily maximum.

Outfall: 001F | **Receiving Water:** Lower Urad Reservoir | **Treatment:** Sed

Amount/Components:
Average flow of 1.7 MGD consisting of mine dewatering, sanitary wastewater, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report %	See below for limits .	1/quarter	See permit protocol
Ag (DS)	N/A 0.000100 mg/l	N/A 0.002700 mg/l	Potentially dissolve d	1/week	grab
Al (DS)	N/A 0.180000 mg/l	N/A 1.300000 mg/l	Potentially dissolve d	1/month	grab
As (DS)	N/A 0.250000 mg/l	N/A 0.520000 mg/l	Potentially dissolve d	1/week	grab
Cd (DS)	N/A 0.001700 mg/l	N/A 0.003700 mg/l	Potentially dissolve d	1/month	grab
Chronic WET	N/A N/A	N/A Report %		2/year	See permit protocol
Cr+6	N/A 0.018000 mg/l	N/A 0.023000 mg/l	Potentially dissolve d	1/week	grab
Cu (DS)	N/A 0.014000 mg/l	N/A 0.018000 mg/l	Potentially dissolve d	1/week	grab
Fe (TR)	N/A 1.600000 mg/l	N/A Report mg/l		1/month	grab
Flow	N/A 2.630000 MGD	N/A Report MGD		1/week	instantaneous

Facility Name: Climax Molybdenum Co.Henderson | Permit Number: CO0000230

Facility Description: Molybdenite mine dewatering and mill discharge | SIC Code: 1061

Hg (T)	N/A 0.001000 mg/l	N/A 0.002000 mg/l		1/week	grab
Mo (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ni (DS)	N/A 0.200000 mg/l	N/A 1.647000 mg/l	Potentially dissolve d	1/week	grab
O&G	N/A N/A	N/A 10.000000 mg/l	No visible sheen	1/week	grab/visual
Pb (DS)	N/A 0.003300 mg/l	N/A 0.078000 mg/l	Potentially dissolve d	1/week	grab
pH	N/A N/A	N/A Report	Between 6.5 su and 9 .2 su	1/week	grab
Radium (T)	N/A Report	N/A Report	Units: pCi/l See be low.	1/month	grab
TSS	N/A 30.000000 mg/l	N/A N/A	45 mg/l 7-day averag e	1/week	grab
U (DS)	N/A 2.834000 mg/l	N/A 3.870000 mg/l	Potentially dissolve d	1/month	grab
Zn (DS)	N/A 0.189000 mg/l	N/A 0.183000 mg/l	Potentially dissolve d	1/week	grab

Limitations/Monitoring Basis:
Outfall 001F was created to represent limits which apply during the months of August and September, only from 7/9/93 through 9/30/97. See Limits/Monitoring Basis Discussion for Outfall 001A. Limits for radium begin October 1, 1994. The monthly average limits for August and September will be 9.707 pCi/l and the permittee will be required to report the daily maximum.

Outfall: 003 | Receiving Water: Internal to Outfall 001 | Treatment: AS

Amount/Components:
Average flow 0.018 MGD consisting of sanitary wastewater only (ssociated with mining)

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 30.000000 mg/l	N/A 45.000000 mg/l		1/month	grab
FC	N/A Report	N/A Report	Units: No./100 ml	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/month	instantaneous
TRC	N/A N/A	N/A 0.500000 mg/l		1/week	grab

Limitations/Monitoring Basis:
Internal outfall 003 was established to monitor and regulate TRC. Limits for TRC and O&G were based on the "State Regulations for Effluent Limitations" (10.1.0). Monitoring requirements were established for FC because it is known to be present, but not expected to be at levels of concern. Limits for BOD5 were included because elevated levels have been found at this outfall. The limit is technology-based, using secondary treatment standards. Monitoring requirements were established as 1/week for parameters of concern.

Facility Name: Climax Molybdenum Co.Henderson | Permit Number: CO0000230

Facility Description: Molybdenite mine dewatering and mill discharge | SIC Code: 1061

Outfall: 004A | Receiving Water: Williams Fork River | Treatment: None specified.

Amount/Components:
Typically, no flow of milling process wastewater bypass.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cd (DS)	N/A 0.000580 mg/l	N/A 0.001500 mg/l	Potentially dissolve d	1/week	grab
CN (T)	N/A 0.005000 mg/l	N/A 0.010000 mg/l	Applies during disch arge	1/week	grab
Cu (DS)	N/A 0.005800 mg/l	N/A 0.008000 mg/l	Potentially dissolve d	1/week	grab
Fe (TR)	N/A 1.000000 mg/l	N/A 2.000000 mg/l		1/week	grab
Hg (T)	N/A 0.000010 mg/l	N/A 0.000020 mg/l	Applies during disch arge	1/week	grab
Mn (TR)	N/A 1.000000 mg/l	N/A 2.000000 mg/l	Applies during disch arge	1/week	grab
Pb (DS)	N/A 0.001200 mg/l	N/A 0.025000 mg/l	Potentially dissolve d	1/week	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	1/week	grab
SO4	N/A 250.000000 mg/l	N/A N/A	Applies during disch arge	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 45.000000 mg/l	Applies during disch arge	1/week	grab
Zn (DS)	N/A 0.052000 mg/l	N/A 0.057000 mg/l	Potentially dissolve d	1/week	grab

Limitations/Monitoring Basis:
When discharge from Outfall 004 results from a 10-year, 24-hour storm event, the instream water quality standards must be met. In addition, prior to discharge, the permittee must submit written notice of their intent to discharge 10 days prior to the beginning date of any discharge. Along with such notice, the permittee is required to submit a recent analysis of the mill circuit water for specified parameters, and an estimate of the total time required to discharge. Discharge without a documented 10-year 24-hour storm event is addressed in this abstract in Outfall 004B. The basis for the TSS and pH limits and the monitoring conditions was not discussed.

Outfall: 005 | Receiving Water: Williams Fork River | Treatment: None

Amount/Components:
Gage station on the River.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cd (DS)	N/A N/A	N/A Report mg/l		1/week	grab
CN (T)	N/A N/A	N/A Report mg/l		1/week	grab
Cu (DS)	N/A N/A	N/A Report mg/l		1/week	grab
Fe (TR)	N/A N/A	N/A Report mg/l		1/week	grab
Flow	N/A N/A	N/A Report MGD		1/week	instantaneous

Facility Name: Climax Molybdenum Co.Henderson | Permit Number: CO0000230

Facility Description: Molybdenite mine dewatering and mill discharge | SIC Code: 1061

Hg (T)	N/A N/A	N/A Report mg/l		1/week	grab
Mn (TR)	N/A N/A	N/A Report mg/l		1/week	grab
Pb (DS)	N/A N/A	N/A Report mg/l		1/week	grab
SO4	N/A N/A	N/A Report mg/l		1/week	grab
Zn (DS)	N/A N/A	N/A Report mg/l		1/week	grab

Limitations/Monitoring Basis:
This is a monitoring point for the mill side, used to measure flow and calculate the final instream concentration for any discharges from Outfall 004.

Outfall: 004B | Receiving Water: Williams Fork River | Treatment: None specified.

Amount/Components:
Typically no flow of milling process wastewater bypass.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report %	Applies during discharge	1/quarter	grab
Cd (DS)	N/A 0.000580 mg/l	N/A 0.001500 mg/l	Potentially dissolved	1/week	grab
Cd (T)	N/A 0.050000 mg/l	N/A 0.100000 mg/l	Applies during discharge	1/week	grab
CN (T)	N/A 0.005000 mg/l	N/A 0.010000 mg/l	Applies during discharge	1/week	grab
Cu (DS)	N/A 0.005800 mg/l	N/A 0.008000 mg/l	Potentially dissolved	1/week	grab
Cu (T)	N/A 0.150000 mg/l	N/A 0.300000 mg/l	Applies during discharge	1/week	grab
Fe (TR)	N/A 1.000000 mg/l	N/A 2.000000 mg/l		1/week	grab
Hg (T)	N/A 0.000010 mg/l	N/A 0.000020 mg/l	Applies during discharge	1/week	grab
Mn (TR)	N/A 1.000000 mg/l	N/A 2.000000 mg/l	Applies during discharge	1/week	grab
Pb (DS)	N/A 0.001200 mg/l	N/A 0.025000 mg/l	Potentially dissolved	1/week	grab
Pb (T)	N/A 0.300000 mg/l	N/A 0.600000 mg/l	Applies during discharge	1/week	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9.0 su	1/week	grab
SO4	N/A 250.000000 mg/l	N/A N/A	Applies during discharge	1/week	grab
TSS	N/A 20.000000 mg/l	N/A 30.000000 mg/l	Applies during discharge	1/week	grab
Zn (DS)	N/A 0.052000 mg/l	N/A 0.057000 mg/l	Potentially dissolved	1/week	grab

Facility Name: Climax Molybdenum Co.Henderson					Permit Number: CO0000230
Facility Description: Molybdenite mine dewatering and mill discharge					SIC Code: 1061
Zn (T)	N/A 0.500000 mg/l	N/A 1.000000 mg/l	Applies during discharge	1/week	grab

Limitations/Monitoring Basis:
When discharge from Outfall 004 results without a documented 10-year, 24-hour storm event, effluent limitations for Cu(T), Zn(T), Pb(T), Hg(T), Cd(T), TSS and WET as well as instream water quality standards must be met. Discussion of the basis for the limits and monitoring conditions was not provided.

Special Conditions Basis:
A whole effluent toxicity control program plan is due 30 days from the permit effective date. An update of the Haterials Containment Plan is due 90 days from the permit effective date. A report and implementation plan for controlling radium is due by August 1, 1993. The permit contains a reopener based on the results of the toxicity tests. Storm water discharges are not included in this permit at this time, pending notification on the group permit application. The permittee is required to document storms greater than a 10-year 24-hour event, which qualifies the facility for the precipitation-based limits for Outfall 004. The permittee is required to install a flow measuring device within 90 days of the permit effective date if not already present.

Effective Date: 10/01/92 Expiration Date: 09/30/97 Abstract Date: 05/04/93

Facility Name: Fort St Vrain Electric Gen Sta | Permit Number: CO0001121

Facility Description: Nuclear power plant being decommissioned with no electricity generated | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	√	√	√	√

Abstract Information:
Partial: Outfalls 001A, 002 (representative of 001B), 006, and 007. No monitoring is required for Outfalls 003, 004, and 005.

Outfall: 001A | Receiving Water: South Platte River | Treatment: Sed

Amount/Components:
2.0794 MGD average flow containing the overflow from the farm pond at the Parshall flume, which is prior to entering the river.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/week	instantaneous
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/week	visual
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	1/week	grab
Temp.	N/A Report F	N/A 86.000000 F		1/week	in-situ
TRC	N/A 0.250000 mg/l	N/A 0.250000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:
Limits for TRC based on ELGs in 40 CFR Parts 423.12 and 423.13 as well as WQSs because the power plant, now being decommissioned, will eventually operate. The limits were determined using a flow weighted calculation for 6 contributing wastewater sources. For some of these sources BPJ values were used in the calculation. Release of free available Cl and TRC are limited to 2 hrs/day from any one unit and no more than one unit at a time. Discharges from metal cleaning and cooling tower basin cleaning wastes are prohibited. Discharge of PCBs is prohibited. Limits for pH are based on State WQSs (5 CCR 1002-8). O&G limits are based on State Standards, Regulations for Effluent Limitations" (10.1.0) If a visible sheen or floating oil is observed at a discharge point, corrective actions are to be taken. A log of these activities is required. Temperature limits are based on BPJ and river classification as warm water aquatic specified in the State Basic Standards and Methodologies for Surface Water (3.1.0). Net TSS limits set in accordance with 40 CFR Part 122.45(2)(g). Monitoring conditions based on previous permit. The permit contains monitoring for the 126 priority pollutants due to chemicals added for cooling tower maintenance. A one time analysis for all priority pollutants, organic chemicals, PCBs and other chemicals indicated in the permit renewal application is required for each permit renewal.

Outfall: 002 | Receiving Water: St Vrain Creek | Treatment: Sed

Amount/Components:
2.0794 MGD average flow, discharging only as an alternative to Outfall 001B during ditch maintenance, containing discharge from the drainage slough

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	grab
Chronic WET	N/A N/A	N/A Report	See below	2/year	8hr fw composite
Cr (T)	N/A 0.027500 mg/l	N/A 0.027500 mg/l		1/month	grab
Fe (TR)	N/A 1.400000 mg/l	N/A Report mg/l		1/month	grab

Facility Name: Fort St Vrain Electric Gen Sta | Permit Number: CO0001121

Facility Description: Nuclear power plant being decommissioned with no electricity generated | SIC Code: 4931

Flow	N/A Report MGD	N/A Report MGD		1/week	instantaneous
NH3 (T)	N/A Report mg/l	N/A N/A	mg/l as N	1/month	grab
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/week	visual
P (T)	N/A Report mg/l	N/A N/A		1/month	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	1/week	grab
Temp.	N/A Report F	N/A 86.000000 F		1/week	in-situ
TRC	N/A 0.250000 mg/l	N/A 0.250000 mg/l	See below	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 46.500000 mg/l	Net, see below	1/week	grab
Zn (T)	N/A 0.200000 mg/l	N/A 0.210000 mg/l		1/month	grab

Limitations/Monitoring Basis:
Limitations/Monitoring Basis for Outfall 001A also applies here. Chronic toxicity testing required Jan-June, Jul-Dec, until June 30, 1996. WET testing is to be conducted to evaluate the synergistic or antagonistic effect of compounds. Acute WET testing is to be conducted following EPA methods for placement static tests of a single effluent grab sample using 1 specie with the 48hr test and another with the 96hr test. If a test shows toxicity at concentrations less than or equal to the IWC of 100%, or if 50% mortality is found in any dilution, the permittee must notify the permitting authority, and begin an accelerated testing program. Under the direction of the permitting authority, the permittee will perform a preliminary toxicity investigation and/or a TRE and/or a toxicity control program. Chronic WET testing is to be conducted using 3 grab samples composited for a miimum of 8 hours. Chronic testing is to be conducted using EPA methods for static replacement tests, and 2 species. The permittee is required to install a flow measuring device within 90 days of the permit effective date if not already present. TSS, Cr, and Zn limits based on ELGs. Net TSS limits set in accordance with 40 CFR Part 122.45(2)(g). Fe limit included based on an assessment of water quality data. If an individual toxicity test shows toxicity at specified levels, an accelerated testing schedule is required. WET testing requirements established by Section 6.9.7 of the "Regulations for the State Discharge Permit System" for discharges from wastewater treatment facilities. One time analysis per permit term of priority pollutants, organic chemicals, PCBs, and other chemicals included to ensure no detection, with exception of Cr(T) and Zn(T). Monitoring for ammonia and phosphorus continued from past permit because chemicals used at the facility contain them.

Outfall: 006 | Receiving Water: Internal to Outfalls 001 or 2 | Treatment: API

Amount/Components:
Unspecified amount of low volume waste discharging from the turbine building drain at the end of the 24-inch pipe, prior to mixing with other waters.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/week	instantaneous
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l	No visible sheen.	1/week	visual
pH	N/A Report	N/A Report	Between 6.0 su and 9 .0 su	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:
Limits for O&G and TSS are based on ELGs in 40 CFR Parts 423.12 and 423.13 because the power plant will eventually operate, and the discharge is entirely low volume waste. Limits for pH are based on the State "Regulations for Effluent Limitations" (10.1.0). The basis for the monitoring conditions was not discussed. The limits for TSS and O&G do not apply when storm water runoff dischared from smaller pipes adjacent to 24-in pipes.

Facility Name: Fort St Vrain Electric Gen Sta | Permit Number: CO0001121

Facility Description: Nuclear power plant being decommissioned with no electricity generated | SIC Code: 4931

Outfall: 007 | Receiving Water: Internal to Outfalls 001 or 2 | Treatment: API, AS, Dis, AerL

Amount/Components:
Average flow of 0.0030 MGD consisting of internal discharge from sewage treatment system from last treatment unit, prior to mixing with other waters.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 30.000000 mg/l	N/A Report mg/l	7-day avg: 45 mg/l	1/month	grab
FC	N/A 6000.000000	N/A N/A	Units: No./100 ml	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/week	instantaneous
O&G	N/A N/A	N/A 10.000000 mg/l	No visible sheen.	1/week	visual
pH	N/A Report	N/A Report	Between 6.0 su and 9 .0 su	1/week	grab
TRC	N/A Report mg/l	N/A 0.500000 mg/l		1/week	grab
TSS	N/A 75.000000 mg/l	N/A Report mg/l	7-day avg: 110 mg/l	1/month	grab

Limitations/Monitoring Basis:
Limitations are based on those contained in previous permit. Limits for pH, O&G, BOD5, and TSS based on State "Regulations for Effluent Limitations" (10.1.0). Fecal coliform limit based on State Fecal Coliform Policy. A 7-day average limit of 12,000 /100 ml is also provided. TRC is regulated because chlorine is used for disinfection. The basis for the TRC limitation was not discussed. The basis for monitoring was not discussed.

Special Conditions Basis:
The permittee is required to prepare and submit a storm water management plan containing specific BMPs, and implement it on a schedule established in the permit. The permittee is required to submit an updated Materials Containment Plan within 90 days of the permit effective date. Site-specific BMPs in the permit include managing the total combined flow from the main cooling tower, service cooling tower, and flow from the storage ponds. Radiological monitoring data sampled for the NRC must be submitted. The permit includes a reopener based on the results of toxicity testing.

Effective Date: 04/30/93 | Expiration Date: 11/30/97 | Abstract Date: 04/30/93

Facility Name: Denver Stapleton Intl. Airport | **Permit Number:** CO0026620

Facility Description: Discharges from storm sewer system associated with large airport | **SIC Code:** 4581

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	√	√	√	√

Abstract Information:
Partial; Outfalls 008 (representative of 009A, 009B, 009C, and 010 in summer) and 010 (in winter).

Outfall: 008 | **Receiving Water:** Sand Creek | **Treatment:** None specified.

Amount/Components:
1.8 MGD based on 1.2 year storm event consisting of storm drainage from storm sewer line #1.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A 50.000000 %	mortality with IWC 8 7%	1/quarter	grab
BOD5	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ethylene glycol	N/A Report mg/l	N/A 19.000000 mg/l		1/month	grab
FC	N/A 2000.000000	N/A N/A	Units: No./100 ml	1/month	grab
Flow	N/A Report MGD	N/A 12.800000 MGD		1/month	instantaneous
Jet fuel	N/A Report mg/l	N/A Report mg/l		1/month	grab
O&G	N/A N/A	N/A 10.000000 mg/l		1/month	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	1/month	grab
Propylene glycol	N/A Report mg/l	N/A Report mg/l		1/month	grab
Trichloroethylene	N/A Report mg/l	N/A 0.005000 mg/l		1/month	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/month	grab

Limitations/Monitoring Basis:
Limits apply in summer only (May through September). Discharge allowed in winter, with same limits, if several criteria have been met. Discharge is authorized only during or within 24 hours following a precipitation event. Sampling is required whenever there is a precipitation event, and on a monthly basis regardless of the source of the discharge. Most of the limits were developed using BPJ or continued from previous permit without further explanation. Ethylene glycol limit is based on human health concerns, as the the receiving water flows into a river used for drinking water. In this case, the previous permit limit was retained, even though the permittee had many violations. Based on human health criteria, no limit was included for propylene glycol. The limit for TCE was based on drinking water standards listed in "Basic Standards and Methodologies for Surface Water" (3.1.11), and was continued from the previous permit. The limits for pH and FC were based on water quality standards, even though receiving water low flow could not be estimated. The WQSs were applied directly to the effluent. Monitoring-only was used for jet fuel because it is not expected to be present, but was detected during construction. Acute WET testing is to be conducted using 2 species, 48-hr. and 96 hr. tests, and replacement static tests, following an EPA guidance document. If a test shows toxicity at concentrations less than or equal to the IWC or 87%, or if 50% mortality is found in any dilution, the permittee must notify the permitting authority, and begin an accelerated testing program. Under the direction of the permitting authority the permittee will perform a preliminary toxicity investigation and/or a TRE and or a toxicity control program. The permittee is required to install a flow measuring device within 90 days of the permit effective date if not already present.

Facility Name: Denver Stapleton Intl. Airport | Permit Number: CO0026620

Facility Description: Discharges from storm sewer system associated with large airport | SIC Code: 4581

Outfall: 010 | Receiving Water: Sand Creek | Treatment: Sed.

Amount/Components:
Unknown volume consisting of ground water from Eastside Treatment Plant detention pond, discharging only in emergency to protect pond bed integrity.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A 50.000000 %	mortality with IWC 8 7%	1/quarter	grab
BOD5	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ethylene glycol	N/A Report mg/l	N/A 19.000000 mg/l		1/month	grab
FC	N/A 2000.000000	N/A N/A	Units: No./100 ml	1/month	grab
Flow	N/A Report MGD	N/A 12.800000 MGD		1/month	instantaneous
Jet fuel	N/A Report mg/l	N/A Report mg/l		1/month	grab
O&G	N/A N/A	N/A 10.000000 mg/l		1/month	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	1/month	grab
Propylene glycol	N/A Report mg/l	N/A Report mg/l		1/month	grab
Trichloroethylene	N/A Report mg/l	N/A 0.005000 mg/l		1/month	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/month	grab

Limitations/Monitoring Basis:
Limits apply year around, although this outfall has never been used, and it is expected that it will never be used. Discharge from the other outfalls is not authorized unless several criteria provided in the permit are met. Sampling is required whenever there is a precipitation event, and on a monthly basis regardless of the source of the discharge. Monitoring-only was used for jet fuel because it is not expected to be present, but had been detected. Most of the limits were developed using BPJ or continued from previous permit without further explanation. Ethylene glycol limit is based on human health concerns, as the receiving water flows into a riverused for drinking water. In this case, the previous permit was retained, even though the permittee had many violations. Based on human health criteria, no limit was included for propylene glycol. The limit for TCE was based on drinking water standards listed in "Basic Standards and Methodologies for Surface Water" (3.1.11), and was continued from the previous permit. The limits for pH and FC were based on water quality standards, even though receiving water low flow could not be estimated. The WQSs were applied directly to the effluent. See Limitations/Monitoring Basis for Outfall 008 for a discussion of WET testing.

Special Conditions Basis:
Instream WET testing (biomonitoring) is required 2/year up- and down-stream of the discharge points to determine the toxicity of the receiving waters. An updated O&M plan is required, including an ethylene glycol monitoring and elimination plan. The permit contains a toxicity reopener clause. Due to part problems with airport tenants, permittee is required to monitor for the following at 5 discharge points, 1/year, using grab samples:organic toxic pollutants with specified fractions using GC/MS (detection limits provided); TDS, TSS, ammonia(T), pH, surfactants, COD, Cd(TR), Cr(+6), Cu(TR), Fe(TR), Pb(TR), Mn(TR), Ag(TR), and Zn(TR). The MDLs for these parameters are included in the permit. The permittee must submit an updated Materials Containment Plan within 90 days from permit issuance. During each instance of discharge to Sand Creek from Outfalls 008, 009A, 009B or 009C during winter, the permittee is required to monitor for flow, ethylene glycol, and propylene glycol at 3 points upstream and downstream of the outfall in Sand Creek. The permittee is required to perform a two-partstudy on aquatic toxicity of propylene glycon. The first part is due 120 days after permit issuance and the second, about six months after. In the first part site-specific acute and chronic water quality criteria are developed. In the second, potential instream effects are studied.

Effective Date: 04/30/93 | Expiration Date: 10/30/98 | Abstract Date: 05/03/93

Facility Name: Highway 36 Land Development Co | Permit Number: CO0042064

Facility Description: Hazardous waste treatment and disposal | SIC Code: 9999

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	√	√	-	√

Abstract Information:
Complete; Outfalls 001 and 002.

Outfall: 001 | Receiving Water: Beaver Creek | Treatment: GAC, Fil, Scr

Amount/Components:
Stormwater discharges from the triple cell carbon adsorption system, designed for a daily maximum flow of 0.36 MGD, only after onsite uses maximized.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	N/A 200.000000 ug/l	N/A Report ug/l		1/day	grab
1,1,2,2-Tetrachloroethane	N/A 2400.000000 ug/l	N/A Report ug/l		1/day	grab
1,1,2-Trichloroethane	N/A 28.000000 ug/l	N/A Report ug/l		1/day	grab
1,1-Dichloroethylene	N/A 7.000000 ug/l	N/A Report ug/l		1/day	grab
1,2,4,5-Tetrachlorobenzene	N/A 2.000000 ug/l	N/A Report ug/l		1/day	grab
1,2-Cis-Dichloroethylene	N/A 70.000000 ug/l	N/A Report ug/l		1/day	grab
1,2-Dichlorobenzene	N/A 620.000000 ug/l	N/A Report ug/l		1/day	grab
1,2-Dichloroethane	N/A 5.000000 ug/l	N/A Report ug/l		1/day	grab
1,2-Dichloropropane	N/A 0.560000 ug/l	N/A Report ug/l		1/day	grab
1,2-Diphenylhydrazine	N/A 0.050000 ug/l	N/A Report ug/l		1/day	grab
1,2-Trans-Dichloroethylene	N/A 70.000000 ug/l	N/A Report ug/l		1/day	grab
1,3-Dichlorobenzene	N/A 620.000000 ug/l	N/A Report ug/l		1/day	grab
1,4-Dichlorobenzene	N/A 75.000000 ug/l	N/A Report ug/l		1/day	grab
2,3,7,8-TCDD	N/A Report ug/l	N/A Report ug/l	30-day avg: 2.2 x 10 (-7)	1/day	grab
2,4,5-TP	N/A 10.000000 ug/l	N/A Report ug/l		1/day	grab
2,4,5-Trichlorophenol	N/A 700.000000 ug/l	N/A Report ug/l		1/day	grab
2,4,6-Trichlorophenol	N/A 2.000000 ug/l	N/A Report ug/l		1/day	grab
2,4-D	N/A 100.000000 ug/l	N/A Report ug/l		1/day	grab

2,4-Dichlorophenol	N/A 21.000000 ug/l	N/A Report ug/l		1/day	grab
2,4-Dimethylphenol	N/A Report ug/l	N/A 2120.000000 ug/l		1/day	grab
2-Chlorophenol	N/A 2000.000000 ug/l	N/A 4380.000000 ug/l		1/day	grab
Acenaphthene	N/A 520.000000 ug/l	N/A 1700.000000 ug/l		1/day	grab
Acrolein	N/A 21.000000 ug/l	N/A 68.000000 ug/l		1/day	grab
Acrylonitrile	N/A 2600.000000 ug/l	N/A 7550.000000 ug/l		1/day	grab
Acute WET	N/A N/A	N/A 50.000000 %	Units: % mortality	1/quarter	grab
Ag (TR)	N/A 0.000150 mg/l	N/A Report mg/l		1/day	grab
Al (TR)	N/A 0.050000 mg/l	N/A Report mg/l		1/day	grab
Aldicarb	N/A 10.000000 ug/l	N/A Report ug/l		1/day	grab
Aldrin	N/A 0.002000 ug/l	N/A Report ug/l		1/day	grab
Alpha (T)	N/A Report	N/A 15.000000	Units: pCi/l	1/day	grab
As (T)	N/A Report mg/l	N/A 0.050000 mg/l		1/day	grab
Asbestos (fibrous)	N/A 7.100000	N/A Report	Units: mil fibers(>10u)/l	1/day	grab
B	N/A 2.000000 mg/l	N/A Report mg/l		1/day	grab
Ba (TR)	N/A Report mg/l	N/A 5.000000 mg/l		1/day	grab
Be (TR)	N/A 0.130000 mg/l	N/A Report mg/l		1/day	grab
Benzene	N/A 5.000000 ug/l	N/A Report ug/l		1/day	grab
Benzidine	N/A 0.000200 ug/l	N/A Report ug/l		1/day	grab
Beta (T)	N/A Report	N/A 15.000000	Units: pCi/l	1/day	grab
BHC	N/A Report ug/l	N/A 100.000000 ug/l		1/day	grab
Bis (2-chloroethyl) ether	N/A 0.030000 ug/l	N/A Report ug/l		1/day	grab
BOD5	N/A 30.000000 mg/l	N/A N/A	7-day avg.: 45 mg/l	1/day	grab
Carbofuran	N/A 36.000000 ug/l	N/A Report ug/l		1/day	grab
Carbon tetrachloride	N/A 5.000000 ug/l	N/A Report ug/l		1/day	grab

Cd (TR)	N/A Report mg/l	N/A 0.005000 mg/l		1/day	grab
Chlordane	N/A 0.004300 ug/l	N/A 2.400000 ug/l		1/day	grab
Chloride	N/A 250.000000 mg/l	N/A Report mg/l		1/day	grab
Chlorobenzene	N/A 300.000000 ug/l	N/A Report ug/l		1/day	grab
Chronic WET	N/A Report	N/A N/A	Units: % mortality	2/year	grab
CN (free)	N/A Report mg/l	N/A Report mg/l		1/day	grab
Co (TR)	N/A 1.000000 mg/l	N/A Report mg/l		1/day	grab
Cr (TR)	N/A Report mg/l	N/A 0.100000 mg/l		1/day	grab
Cr+6	N/A 0.011000 mg/l	N/A 0.016000 mg/l		1/day	grab
CS2	N/A 0.002000 mg/l	N/A Report mg/l	Report mg/l as H2S	1/day	grab
Cu (DS)	N/A 0.057000 mg/l	N/A 0.100000 mg/l	potentially dissolve d	1/day	grab
DDD	N/A Report ug/l	N/A 0.600000 ug/l		1/day	grab
DDE	N/A Report ug/l	N/A 1050.000000 ug/l		1/day	grab
DDT and derivativ es	N/A 0.001000 ug/l	N/A 1.100000 ug/l		1/day	grab
Demeton	N/A 0.100000 ug/l	N/A Report ug/l		1/day	grab
Dichloropropene	N/A 244.000000 ug/l	N/A 6060.000000 ug/l		1/day	grab
Dieldrin	N/A N/A	N/A N/A		1/day	grab
Dinitrotoluene	N/A 230.000000 ug/l	N/A 330.000000 ug/l		1/day	grab
DO	N/A N/A	N/A Report mg/l	Daily minimum: 5.0 m g/l	1/day	grab
Endosulfan sulfat e	N/A 0.056000 ug/l	N/A 0.220000 ug/l		1/day	grab
Endrin	N/A 0.002300 ug/l	N/A 0.180000 ug/l		1/day	grab
Ethylbenzene	N/A 680.000000 ug/l	N/A Report ug/l		1/day	grab
FC	N/A 2000.000000	N/A N/A	Units: No. /100 ml	1/day	grab
Fe (DS)	N/A 0.300000 mg/l	N/A Report mg/l		1/day	grab
Fe (TR)	N/A 1.000000 mg/l	N/A Report mg/l		1/day	grab

Facility Name: Highway 36 Land Development Co | Permit Number: CO0042064

Facility Description: Hazardous waste treatment and disposal | SIC Code: 9999

Fl	N/A 2.000000 mg/l	N/A Report mg/l		1/day	grab
Flow	N/A 0.360000 MGD	N/A Report MGD		continuous	record
Fluoranthene	N/A Report ug/l	N/A 3980.000000 ug/l		1/day	grab
Hardness	N/A Report mg/l	N/A Report mg/l	Units: mg/l as CACO3	not given	not given
Heptachlor	N/A 0.003800 ug/l	N/A 0.520000 ug/l		1/day	grab
Heptachlor epoxide	N/A 0.004000 ug/l	N/A Report ug/l		1/day	grab
Hexachlorobenzene	N/A 0.020000 ug/l	N/A Report ug/l		1/day	grab
Hexachlorobutadiene	N/A 0.930000 ug/l	N/A 90.000000 ug/l		1/day	grab
Hexachlorocyclopentadiene	N/A 5.200000 ug/l	N/A 7.000000 ug/l		1/day	grab
Hexachloroethane	N/A 540.000000 ug/l	N/A 980.000000 ug/l		1/day	grab
Hg (T)	N/A 0.000012 mg/l	N/A 0.002000 mg/l		1/day	grab
Isophorone	N/A 1050.000000 ug/l	N/A Report ug/l		1/day	grab
Li (T)	N/A 2.500000 mg/l	N/A Report mg/l		1/day	grab
Lindane	N/A 0.080000 ug/l	N/A 2.000000 ug/l		1/day	grab
Malathion	N/A 0.100000 ug/l	N/A Report ug/l		1/day	grab
Methoxychlor	N/A 0.030000 ug/l	N/A Report ug/l		1/day	grab
Mirex	N/A 0.001000 ug/l	N/A Report ug/l		1/day	grab
Mn (DS)	N/A 0.050000 mg/l	N/A Report mg/l		1/day	grab
Mo (TR)	N/A 0.050000 mg/l	N/A Report mg/l		1/day	grab
Naphthalene	N/A 620.000000 ug/l	N/A 2300.000000 ug/l		1/day	grab
NH3 (T)	N/A Report mg/l	N/A Report mg/l		1/day	grab
Ni (DS)	N/A 0.390000 mg/l	N/A 3.700000 mg/l	potentially dissolved	1/day	grab
Nitrobenzene	N/A 3.500000 ug/l	N/A Report ug/l		1/day	grab
NO2	N/A Report mg/l	N/A 1.000000 mg/l	Units: mg/l as N	1/day	grab
NO3	N/A Report mg/l	N/A 10.000000 mg/l	Units: mg/l as N	1/day	grab

Facility Name: Highway 36 Land Development Co | Permit Number: CO0042064

Facility Description: Hazardous waste treatment and disposal | SIC Code: 9999

O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/day	grab/visual
Parachlorometacresol	N/A Report ug/l	N/A 30.000000 ug/l		1/day	grab
Parathion	N/A 0.013000 ug/l	N/A 0.065000 ug/l		1/day	grab
Pb (DS)	N/A 0.033000 mg/l	N/A 0.050000 mg/l	potentially dissolved	1/day	grab
PCBs (T)	N/A 0.005000 ug/l	N/A Report ug/l		1/day	grab
Pentachlorobenzene	N/A 6.000000 ug/l	N/A Report ug/l		1/day	grab
Pentachlorophenol	N/A 5.700000 ug/l	N/A 9.000000 ug/l		1/day	grab
pH	N/A N/A	Report N/A	Between 6.5 su and 9.0 su	1/day	grab
Phenol	N/A 2560.000000 ug/l	N/A 10200.000000 ug/l		1/day	grab
Radium (T)	N/A Report	N/A 5.000000	Units: pCi/l	1/day	grab
Sb (TR)	N/A 1.600000 mg/l	N/A 9.000000 mg/l		1/day	grab
Se (T)	N/A 0.020000 mg/l	N/A 0.050000 mg/l		1/day	grab
SO4	N/A 250.000000 mg/l	N/A Report mg/l		1/day	grab
TDS	N/A 500.000000 mg/l	N/A Report mg/l		1/day	grab
Tetrachloroethylene	N/A 10.000000 ug/l	N/A Report ug/l		1/day	grab
TKN	N/A Report mg/l	N/A Report mg/l	Units: mg/l as N	1/day	grab
Tl (TR)	N/A 0.150000 mg/l	N/A Report mg/l		1/day	grab
TOC	N/A Report mg/l	N/A Report mg/l		1/day	grab
Toluene	N/A 2420.000000 ug/l	N/A Report ug/l		1/day	grab
Toxaphene	N/A 0.000200 ug/l	N/A 0.730000 ug/l		1/day	grab
Trichloroethylene	N/A 5.000000 ug/l	N/A Report ug/l		1/day	grab
Trihalomethanes (T)	N/A 100.000000 ug/l	N/A Report ug/l		1/day	grab
TSS	N/A 30.000000 mg/l	N/A Report mg/l	7 day avg.: 45 mg/l	1/day	grab
U (T)	N/A Report	N/A 0.035000	Units: pCi/l	1/day	grab
V (TR)	N/A 0.100000 mg/l	N/A Report mg/l		1/day	grab

Facility Name: Highway 36 Land Development Co | Permit Number: CO0042064

Facility Description: Hazardous waste treatment and disposal | SIC Code: 9999

Vinyl chloride	N/A 2.000000 ug/l	N/A Report ug/l		1/day	grab
Zn (TR)	N/A 0.500000 mg/l	N/A 0.560000 mg/l		1/day	grab

Limitations/Monitoring Basis:
Flow monitoring requirements and other monitoring conditions are applicable only during discharge. Because discharge is expected to be infrequent, daily monitoring was deemed appropriate. These requirements are based on the department's BPJ. State effluent standards were used to set limits for TSS, BOD5 and O&G. If an oil sheen or floating oil is seen, a grab sample must be analyzed and reported on the DMR, with a description of the corrective action taken. State WQSs and exisitng standards for Beaver Creek were used to set limits for fecal coliform, pH, DO, and Ag. Designated use classifications for Beaver Creek and BPJ (BEJ) used to set other limits together with the EPA "Gold Book" for protection of quatic life and the "Blue Book" for livestock and watering and irrigation. National Primary and Secondary Drinking Water Regulations were used in setting limits for Al, As, Ba, Cd, chloride, Cr, Fl, Fe, Pb, Mn, Hg, asbestos, nitrate, nitrite, Se, sulfate, and TDS. A hardness-dependent equation and BPJ were used to determine limits for Cu and Ni. Future limits for all of the metals may involve a hardness-dependent equation. Thus the permittee is required to monitor for hardness. While the facility is not licensed to receive and treat radioactive wastes, limits are included in compliance with RCRA requirements. Limits for the organics are based on Basic Standards applicable to all state waters. These are included because it is believed that the potential for any of these compounds to be present exists. Monitoring is required 1/day because it is expected that discharge will be infrequent. WET testing is included to account for synergistic or antagonistic effects of discharges of toxics. Acute WET testing is to be conducted following EPA methods for replacement static tests of a single effluent grab sample. Using 1 specie with the 48-hr. test and another with the 96-hr. test. If a test shows toxicity at concentrations less than or equal to the IWC or 100%, or if 50% mortality is found in any dilution, the permittee must notify the permitting authority, and begin an accelerated testing program. Under the direction of the permitting authority, the permittee will perform a preliminary toxicity investigation and/or a TRE and/or a toxicity control program. Chronic WET testing is to be conducted using 3 grab samples composited for a minimum of 8 hours. Chronic testing is to be conductedusing EPA methods for static replacement test, and 2 species. The potentially dissolved metal fraction is defined as an analytical method in a footnote and a citation is provided. Monitoring for TOC was established because it is an indicator parameter. The limitations and monitoring for most of the metals are specified as TR based on Basic Standards, due to agricultural and domestic receiving water uses. Where monitoring but no limitsre used, the parameter is expected to be present, but not in concentration of concern.

Outfall: 002 | Receiving Water: Beaver Creek | Treatment: Sed

Amount/Components:
Unspecified amount of intermittent discharges from uncontaminated storm water retention basin, as this water is normally used onsite

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A Report mg/l	N/A Report mg/l	Report 7 day average	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/week	continuous
O&G	N/A N/A	N/A Report mg/l	Visual monitoring 1/ week	1/month	grab
pH	N/A N/A	N/A Report su		1/week	grab
TDS	N/A Report mg/l	N/A Report mg/l		1/month	grab
TKN	N/A Report MGD	N/A Report MGD		1/month	grab
TOC	N/A Report mg/l	N/A Report mg/l		1/month	grab

Facility Name: Highway 36 Land Development Co					Permit Number: CO0042064
Facility Description: Hazardous waste treatment and disposal					SIC Code: 9999
TSS	N/A Report mg/l	N/A N/A		1/month	grab

Limitations/Monitoring Basis:
No limitations are required because this is an uncontaminated diverted water source. Monitoring is required to verify that no potential contamination occurs into the uncontaminated runoff collection system.

Special Conditions Basis:
Site-specific BMPs are provided in Part C of the permit. The detection level for use in analyzing the organics is specified as the lowest practical quantifiable level for organic parameters, taken from "The Basic Standards and Methodologies for Surface Water" (3.1.0)(5 CCR 1002-8). For metals and TRC, the lowest MDL is provided. Pursuant to Sections 6.9.3(5) and (6)(b) of the Regulations for the State Discharge Permit System, the permittee is required to submit a Materials Containment Plan within 90 days after permit issuance to account for materials not covered by the RCRA Contingency Plan. This must contain a spill containment plan. The permit contains a reopener based on the toxicity testing results. The permittee is required to install a flow measuring device within 90 days of the permit effective date if not already present.

Effective Date: 08/10/90 **Expiration Date:** 05/31/95 **Abstract Date:** 04/13/93

Facility Name: FIDCO, Inc. | Permit Number: CT0000850

Facility Description: Food products processing | SIC Code: 2099

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	√	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	-

Abstract Information:
Partial; Outfalls 001 and 002 (represents 003).

Outfall: 001 | Receiving Water: Housatonic River | Treatment: Floc, Set, Dis, AerL

Amount/Components:
0.13 MGD (average) of treated food processing wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	Composite
BOD5	N/A 60.000000 mg/l	N/A 100.000000 mg/l		1/week	Composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	Composite
Coliform (T)	N/A N/A	N/A N/A	See below	1/week	Grab
FC	N/A N/A	N/A N/A		1/week	Grab
Fecal streptococci (FS)	N/A N/A	N/A N/A		1/week	Grab
Flow	N/A N/A	N/A Report	See below	During discharg	Record
NH3-N	N/A N/A	N/A 120.000000 mg/l		1/week	Composite
NO2-N	N/A N/A	N/A N/A		1/week	Composite
NO3-N	N/A N/A	N/A N/A		1/week	Composite
Organic-N	N/A N/A	N/A N/A		1/week	Composite
P (T)	N/A 1.000000 mg/l	N/A 1.500000 mg/l		1/week	Composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .5 su	1/week	Composite
TRC	N/A 0.680000 mg/l	N/A 1.360000 mg/l		1/day	Grab
TSS	N/A 60.000000 mg/l	N/A 100.000000 mg/l		1/week	Composite

Limitations/Monitoring Basis:
The basis for limitations and monitoring conditions was not provided except as a general reference to consistency with BAT and WQSs. Concentration of pollutants limited in any grab sample is required to be less than 1.5 times the daily maximum limit at all times. For parameters requiring grab samples, the maximum limit may not be exceeded. The P(T) limit is applicable only from May 1 through August 15. The NH3-N limit is applicable from June 1 through September 30. Coliform (T) must not exceed 2400/100 ml during May 1 through September 30. Acute WET testing and chronic WET testing are to be conducted following EPA guidance using 2 species, specified dilution water, 5 dilutions, and a 48 hour test for Daphnia pulex and a 96 hour test for Pimephales promelas. Compliance with the acute WET limit is achieved when the LC50 value for the effluent is greater than 3 times the IWC. Compliance with the chronic WET is achieved when the LC50 is 20 times the IWC. The IWC may be calculated using mean effluent flow.

Facility Name: FIDCO, Inc. Permit Number: CT0000850

Facility Description: Food products processing SIC Code: 2099

If toxicity is found, a second test is required within 30 days. If 2 consecutive test results, or three in one year fail, the permittee will be required to propose a schedule to accomplish toxicity reduction. The permittee is required to record the total flow and the number of hours of discharge for each day of sample collection and/or the instantaneous flow at the time of collecting grab samples. Toxicity testing results that indicate less than 90% survival are to be immediately retested. Any violation of a toxicity limit requires a second sample analysis. If two consecutive test results, or three test results in a single year exceed the maximum daily toxicty limit, the permittee is required to conduct a TRE.

Outfall: 002 | Receiving Water: Housatonic River | Treatment: None

Amount/Components:
0.3 MGD (average) of noncontact cooling water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	2/year	Composite
Chronic WET	N/A N/A	N/A Report	See below	2/year	Composite
Cu (T)	N/A N/A	N/A 0.060000 mg/l		1/quarter	composite
Flow	N/A N/A	N/A Report	See below	During discharg	Record
NH3	N/A N/A	N/A 3.000000 mg/l		1/quarter	Composite
Ni (T)	N/A N/A	N/A 0.925000 mg/l		1/quarter	Composite
O&G	N/A N/A	N/A 5.000000 mg/l		1/quarter	Composite
Pb (T)	N/A N/A	N/A 0.014000 mg/l		1/quarter	Composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .5 su	1/quarter	Composite
Surfactants	N/A N/A	N/A 0.500000 mg/l		1/quarter	Composite
TDS	N/A N/A	N/A 1500.000000 mg/l		1/quarter	Composite
Temp.	N/A N/A	N/A Report	See below	1/month	Grab
TRC	N/A N/A	N/A 0.116000 mg/l		1/quarter	Composite
TSS	N/A N/A	N/A N/A		1/quarter	Composite
Zn	N/A N/A	N/A 0.153000 mg/l		1/quarter	Composite

Limitations/Monitoring Basis:
See the limitations/monitoring basis for Outfall 001. Compliance with acute and chronic toxicity limit shall be achieved when no significant mortality occurs in the daily composite sample of effluent at a concentration equal to or greater than NOAEL as determined by pass-fail methodology in State regulations. The IWC = 1 for Outfall 002. The permittee is prohibited from using water treatment chemicals or additives containing Cr, Cu, Pb,Zn, or tributyl tin.

Special Conditions Basis:
Toxicity test results that indicate less than 90% survival are to be immediately retested. Any violation of a toxicity limit requires a second sample analysis. If two consecutive test results or three test results in a single year exceed maximum daily toxicity limit, the permittee is required to conduct a TRE.

Effective Date: 09/25/92 Expiration Date: 09/25/97 Abstract Date: 09/14/93

Facility Name: FIDCO, Inc.	Permit Number: CT0000850
Facility Description: Food products processing	SIC Code: 2099

Facility Name: Summit Corp of America | Permit Number: CT0001180

Facility Description: Metal finishing | SIC Code: 3471

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	√	-	-	√

Abstract Information:
Complete; Outfall 001

Outfall: 001 | Receiving Water: Naugatuck River | Treatment: Neut, PF

Amount/Components:
0.376 MGD average, 0.5 MGD daily maximum, of treated metal finishing wastewater.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	Composite
Ag	0.027200 kg/d 0.100000 mg/l	0.054400 kg/d 0.500000 mg/l		1/week	Composite
Al	N/A 2.000000 mg/l	N/A 4.000000 mg/l		1/week	Composite
Au	N/A 0.100000 mg/l	N/A 0.500000 mg/l		1/week	Composite
BOD5	N/A N/A	N/A Report		1/month	Composite
Cd	0.025000 kg/d 0.100000 mg/l	0.050000 kg/d 0.500000 mg/l		1/year	Composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	Composite
CN (A), Amenable CN	N/A 0.100000 mg/l	N/A 0.200000 mg/l		1/week	grab
CN (T)	0.193060 kg/d 0.220000 mg/l	0.386200 kg/d 0.400000 mg/l		1/week	Grab
Cr (T)	N/A 1.000000 mg/l	N/A 2.000000 mg/l		1/year	Composite
Cu	0.218000 kg/d 1.000000 mg/l	0.436000 kg/d 2.000000 mg/l		1/week	Composite
Fe	N/A 3.000000 mg/l	N/A 5.000000 mg/l		1/week	Composite
Flow	N/A N/A	N/A Report	See below	During discharg	Record
Fluoride	N/A 20.000000 mg/l	N/A 40.000000 mg/l		1/week	composite
NH3	N/A N/A	N/A 10.000000 mg/l		1/week	Composite
Ni	N/A 1.000000 mg/l	N/A 2.000000 mg/l		1/week	Composite
Other	N/A N/A	N/A Report	Indium	1/week	Composite
Pb	0.048300 kg/d 0.100000 mg/l	0.096600 kg/d 0.500000 mg/l		1/month	Composite

Facility Name: Summit Corp of America | Permit Number: CT0001180

Facility Description: Metal finishing | SIC Code: 3471

Pd	N/A N/A	N/A Report		1/week	composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .5 su	1/month	Composite
Sn	N/A 2.000000 mg/l	N/A 4.000000 mg/l		1/week	Composite
Temp.	N/A N/A	N/A N/A	See below		
TRC	N/A 0.350000 mg/l	N/A 0.620000 mg/l	See below	1/week	Grab
TSS	N/A 20.000000 mg/l	N/A 30.000000 mg/l		1/week	Composite
TTOs	N/A N/A	N/A 1.000000 mg/l		1/month	Grab
Zn	0.558500 kg/d 1.000000 mg/l	1.117000 kg/d 2.000000 mg/l		1/week	Composite

Limitations/Monitoring Basis:

The limits and monitoring conditions were based on ELGs in 40 CFR Part 433 Section 22a-430-4s(2) and State WQSs. The concentration of the pollutants limited on any grab sample is required to be less than 1.5 times the maximum daily concentrations. The mass-based limitations (Cu, Cd, Pb, Ag, Zn, and CN(T)) become effective two years after permit issuance. The permittee is required at all times to record the total flow and the number ofhours of discharge for each day of sample collection, and/or the instantaneous flow at the time of grab sample collection. In lieu of analyzing for TTO, each monthly report may include a statement certifying compliance with an approved solvent management plan. Compliance with acute WET limit is achieved when the LC50 is greater than 3 times the IWC. Compliance with chronic WET limit is achieved when the LC50 is greater than 20 times the IWC. Acute and chronic WET monitoring are to be conducted following specified EPA guidance, specified dilution water, and a 48 hour test using Daphnia. The mean effluent flow rate may be used to calculate the IWC. TRC is to be monitored during CN sampling. Free residual chlorine is also to be monitored at this time. The temperature of the discharge must not raise the temperature of the receiving stream by more than 4 degrees nor increase the temperature of the receiving stream above 85 degrees Farenheit.

Special Conditions Basis:

On or before 30 days from permit issuance, the permittee is required to retain a qualified PE to perform studies to achieve compliance with mass-based effluent limits. On or before 270 days from permit issuance, the permittee is required to submit a report outlining remedial measures to achieve compliance with mass-based effluent limits, no later than 2 years after permit issuance. Toxicity testing results that indicate less than 90% survival are to be immediately retested. Any violation of the toxicity limit requires a second sample analysis. If two consecutive test results or three test results in a single year exceed the maximum daily toxicity limit, the permittee is required to conduct a TRE. Within 365 days after permit issuance, the permittee is required to verify that spill containment has been provided around all CN plating baths. Quarterly status reports are required to be submitted.

Effective Date: 05/11/93 | Expiration Date: 05/11/98 | Abstract Date: 09/14/93

Facility Name: Drawn Metal Tube Company | **Permit Number:** CT0001601

Facility Description: Copper alloy tube redrawn mill | **SIC Code:** 3351

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	✓	✓	✓	✓	✓	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	✓	-	-	-

Abstract Information:
Complete; Outfall 001

Outfall: 001 | **Receiving Water:** Naugatuk R. via storm sewer | **Treatment:** Neut, Floc, Set, Fil, Red

Amount/Components:
0.012 MGD (average) of copper forming wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	Grab or composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	Grab or composite
Cr (T)	0.022000 kg/d 0.490000 mg/l	0.054000 kg/d 1.190000 mg/l		1/week	Grab
Cr+6	0.004500 kg/d 0.100000 mg/l	0.009100 kg/d 0.200000 mg/l		1/week	Grab
Cu	0.021700 kg/d 1.000000 mg/l	0.043400 kg/d 2.000000 mg/l		1/week	Composite
Fe	0.056700 kg/d 3.000000 mg/l	0.094500 kg/d 5.000000 mg/l		1/week	Composite
Flow	N/A N/A	N/A Report	See below	During discharg	Record
Ni	0.045400 kg/d 1.000000 mg/l	0.090800 kg/d 2.000000 mg/l		1/week	Composite
O&G	0.454000 kg/d 10.000000 mg/l	0.681000 kg/d 15.000000 mg/l		1/week	Grab
Pb	0.004500 kg/d 0.100000 mg/l	0.009100 kg/d 0.200000 mg/l		1/week	Composite
pH	N/A N/A	N/A Report	Between 7.5 su and 9 .8 su	1/week	Composite
Temp.	N/A N/A	N/A Report	See below		
TSS	0.908000 kg/d 20.000000 mg/l	1.362000 kg/d 30.000000 mg/l		1/week	Composite
Zn	0.045400 kg/d 1.000000 mg/l	0.090800 kg/d 2.000000 mg/l		1/week	Composite

Limitations/Monitoring Basis:
The limitations and monitoring conditions were based on ELGs in 40 CFR Part 468 for Cr(T) and BPJ and State WQSs for the others. The concentration of pollutants limited in any grab sample is required to be less than 1.5times the daily maximum limit at all times. Flow monitoring is to be conducted during discharge. The permittee must record the total flow and the number of hours of discharge on each day of sample collection and/or the instantaneous flow at the time of collecting grab samples. Acute and chronic WET monitoring are to be performed monthly for the first 12 months and quarterly thereafter using daily composite samples, specified dilution water, EPA guidance, and 48 hour test using Daphnia pulex. Compliance with the acute WET permit condition is achieved when the LC50 value for the effluent is greater than three times the IWC. Compliance with the chronic WET permit condition is achieved when the LC50 value for the effluent is greater than 20 times the IWC. The mean effluent flow rate may be used to calculate the IWC. The temperature of the discharge is not to raise the normal temperature of the receiving stream more than 4 degrees Farenheit or increase the receiving stream temperature above 85 degrees Farenheit.

Facility Name: Drawn Metal Tube Company		Permit Number: CT0001601
Facility Description: Copper alloy tube redrawn mill		SIC Code: 3351
Special Conditions Basis: On or before 60 days from permit issuance, the permittee is required to submit a report detailing methods to reduce aquatic toxicity. On or before 150 days from permit issuance, the permittee is required to submit a TRE.		
Effective Date: 04/23/93	Expiration Date: 04/23/98	Abstract Date: 09/14/93

Facility Name: Johnson & Johnson Advanced Mat | Permit Number: GA0001791

Facility Description: Manufactures woven gauze products and film from polymers | SIC Code: 2833

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	√	√	√

Abstract Information:
Complete; Outfalls 001(A and B created for abstracting purposes), and 002.

Outfall: 001A | Receiving Water: Redwine Creek | Treatment: Eq + AS + Dis

Amount/Components:
An average flow of 0.17 MGD, consisting of process wastewater treatment plant effluent, effective 9/4/92 through 5/31/93

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	184.000000 lb/d N/A	368.000000 lb/d N/A		3/week	24hr composite
COD	1304.000000 lb/d N/A	2607.000000 lb/d N/A		3/week	24hr composite
Cr (T)	2.000000 lb/d N/A	4.000000 lb/d N/A		1/quarter	24hr composite
Cu	Report N/A	Report N/A	Units not specified	1/month	24hr composite
FC	N/A N/A	N/A 400.000000	Units: #/100 ml	1/week	grab
Flow	N/A Report	N/A Report MGD		continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	3/week	grab
Phenols	2.000000 lb/d N/A	4.000000 lb/d N/A		1/quarter	grab
Sulfide	4.000000 lb/d N/A	8.000000 lb/d N/A		1/quarter	grab
TSS	408.000000 lb/d N/A	816.000000 lb/d N/A		3/week	24hr composite
Zn	Report N/A	Report N/A	Units not specified	1/year	24hr composite

Limitations/Monitoring Basis:
The BOD5 limitations are based on State water quality control regulations for the protection of fishing designated uses and calibrated stream model calculations (assumed from information given in rationale). The remaining limits are BPJ-based on "the plant's demonstrated performance." The basis of the monitoring conditions was not described.

Outfall: 001B | Receiving Water: Redwine Creek | Treatment: AS, Dis

Amount/Components:
An average flow of 0.17 MGD, consisting of process wastewater treatment plant effluent, effective 6/1/93 through 4/30/97

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	184.000000 lb/d N/A	368.000000 lb/d N/A		3/week	24hr composite

Facility Name: Johnson & Johnson Advanced Mat					Permit Number: GA0001791
Facility Description: Manufactures woven gauze products and film from polymers					SIC Code: 2833
COD	1304.000000 lb/d N/A	2607.000000 lb/d N/A		3/week	24hr composite
Cr (T)	2.000000 lb/d N/A	4.000000 lb/d N/A		1/quarter	24hr composite
Cu	N/A N/A	N/A 7.200000 ug/l	See below	1/month	24hr composite
FC	N/A N/A	N/A 400.000000	Units: MPN/100 ml	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	3/week	grab
Phenols	2.000000 lb/d N/A	4.000000 lb/d N/A		1/quarter	grab
Sulfide	4.000000 lb/d N/A	8.000000 lb/d N/A		1/quarter	grab
TSS	408.000000 lb/d N/A	816.000000 lb/d N/A		3/week	24hr composite
Zn	Report lb/d N/A	Report lb/d N/A	Units not specified	1/year	24hr composite

Limitations/Monitoring Basis:
The BOD5 limitation is based on State water quality control regulations for the protection of fishing designated uses and calibrated stream model calculations (assumed from information given in rationale). Other limits based on BPJ, or "the plant's demonstrated performance." The basis for the copper limitation beginning June 1, 1993 was not provided. The basis of the remaining monitoring conditions was not described.

Outfall: 002 | Receiving Water: Balus Creek | Treatment: None specified

Amount/Components:
This outfall is for emergency use consisting only of once through noncontact cooling water, with no heavy metal inhibitor nor chemical additives.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report MGD	N/A N/A	See below		

Limitations/Monitoring Basis:
Flow monitoring conditions were not specified despite flow being listed in the effluent limitations and monitoring requirements table for outfall 002.

Special Conditions Basis:
The permit requires the implementation of baseline BMPs. Storm water discharges are authorized as long as they do not violate State water quality standards. If toxicity is suspected, the permittee may be required to develop a program for whole effluent toxicity monitoring and the preparation of a toxicity reduction evaluation plan; where specified, 90 days are provided to submit a toxicity study plan, 90 days are provided to conduct the study after approval, and 270 days are provided to implement the TRE if a TRE is required. State-specific sludge monitoring, reporting, and disposal conditions are included; a plan of operation for land application is required upon written notification. The bases of these conditions were not described.

Effective Date: 09/04/92 Expiration Date: 04/30/97 Abstract Date: 04/01/93

Facility Name: ITT Rayonier, Inc | **Permit Number:** GA0003620

Facility Description: Pulp and paper mill that produces market bleached kraft | **SIC Code:** 2611

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	√	√	-	-	√	√

Abstract Information:
Complete; Outfall 001 represents the combined limits for outfalls 001 and 002.

Outfall: 001 | **Receiving Water:** Altamaha River | **Treatment:** Scr + PC + AL

Amount/Components:
63 MGD from outfalls 001 and 002 (combined) of process wastewater, sanitary wastes and stormwater runoff

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	N/A 0.000168 ug/l	N/A N/A	Procedures are specified	1/quarter	24hr composite
BOD5	22300.000000 lb/d N/A	33450.000000 lb/d N/A	Seasonal: see below	1/day	composite
Color	N/A Report	N/A Report	Units not specified	1/week	composite
Flow	N/A Report MGD	N/A Report MGd	See below	continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
TSS	42010.000000 lb/d N/A	77600.000000 lb/d N/A		1/day	composite

Limitations/Monitoring Basis:
These limitations are for the combined discharges from Outfalls 001 and 002. Although the discharges are subject to ELGs (40 CFR Part 400), BOD5 and TSS limits are based on past permit limitations in accordance with antibacksliding. BOD5 limitations are consistent with State water quality control regulations for protection of fishing designated uses and calibrated stream model calculations. Limits shown for BOD5 above apply from May 1 through Nov. 30. Limits for BOD5 from Dec. 1 through Apr. 30 are 32,000 lb/d daily avg. and 48,000 lb/d daily max. Annual monitoring by composite sampling of BOD120 is also required. The dioxin limit is water quality-based established using a human health risk level concentration at average stream flow conditions. In addition to dioxin, other parameters such as Zn, chloroform, 1,1-dichloroethane, and toluene were evaluated. Their concentrations were not considered significant. Sludge monitoring, reporting, and disposal conditions are included, and a plan of operation for land application is required upon written notification.

Special Conditions Basis:
River samples are required to be collected 2/month during May through Nov. and analyzed for BOD5, BOD40, DO, pH, and temperature. These data will be used in the State's stream model. River monitoring requirements are based on a court order. Analyses for fish tissue samples showing bioaccumulation of dioxin and furan are required to be conducted and reported on an annual basis; monitoring is required in accordance with a State-specific study plan. If toxicity is suspected, the permittee may be required to develop a program for net monitoring and prepare a toxicity reduction evaluation; where specified 90 days are provided to submit a toxicity study plan,90 days are provided to conduct the study after approval, and 270 days are provided to implement the TRE if a TRE is required. State-specific sludge monitoring, reporting, and disposal conditions are included; a plan of operation for land application is required upon written notification. Storm water discharges are authorized as long as they do not violate State water quality standards. Other than described above, the bases of the special conditions were not discussed.

Effective Date: 11/25/92 | **Expiration Date:** 11/30/95 | **Abstract Date:** 03/30/93

Facility Name: Forstmann & Company | Permit Number: GA0003760

Facility Description: Fabric mill that complex finishes wool and wool blends | SIC Code: 2221

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfalls 001, 002, and 003(created to represent the combined plant discharges including 001 and 002).

Outfall: 001 | Receiving Water: Oconee River | Treatment: Eq + AS + Sed

Amount/Components:
Unspecified amount of storm water discharge.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	Report N/A	Report N/A	Units not specified	1/month	grab
Flow	N/A Report MGD	N/A Report MGD	See below	1/month	instantaneous
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	grab

Limitations/Monitoring Basis:
Requirements apply to only the storm water discharge from the polishing pond which contribute to Outfall 001. The bases for the requirements were not described.

Outfall: 002 | Receiving Water: Oconee River | Treatment: Eq + AS

Amount/Components:
0.5 MGD max. of groundwater remediation flow.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	0.500000 MGD N/A		1/quarter	meter
pH	N/A N/A	Report N/A	Between 6.0 su and 9 .0 su	1/quarter	grab
Trichloroethylene	N/A Report	Report N/A	Units not specified	1/quarter	grab

Limitations/Monitoring Basis:
Requirements apply to only the groundwater remediation discharges to Outfall 002. The flow limit is equal to the anticipated maximum flow rate. The bases for the requirements were not given.

Outfall: 003 | Receiving Water: Oconee River | Treatment: Eq + As + Sed

Amount/Components:
An average of 3.7 MGD of treated process, utility, and sanitary wastewater and storm water from pond and outfalls 001 and 002.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	750.000000 lb/d N/A	1500.000000 lb/d N/A		5/week	24hr composite
COD	7900.000000 lb/d N/A	15800.000000 lb/d N/A		5/week	24hr composite

Facility Name: Forstmann & Company					Permit Number: GA0003760
Facility Description: Fabric mill that complex finishes wool and wool blends					SIC Code: 2221
Cr (T)	6.800000 lb/d N/A	13.600000 lb/d N/A		1/month	24hr composite
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/day	grab
Phenols	6.800000 lb/d N/A	13.600000 lb/d N/A		1/month	grab
Sulfide	13.600000 lb/d N/A	27.000000 lb/d N/A		1/month	grab
Trichloroethylene	Report lb/d N/A	Report lb/d N/A	Report (no units giv en)	1/year	grab
TSS	1710.000000 lb/d N/A	3420.000000 lb/d N/A		5/week	24hr composite
Zn	Report lb/d N/A	Report lb/d N/A		1/year	24hr composite

Limitations/Monitoring Basis:
These limitations are for the combined discharges from outfalls 001 and 002 from sources noted. All limitations except BOD5 are based on ELGs (40 CFR Part 410; Subpart B) and the previous permit. BOD5 limits are based on State water quality control regulations for protection of fishing designated uses and calibrated stream model calculations. The BOD5 limits are the same as those in the last permit, consistent with antibacksliding. Since the IWC for Zn, Cr(T), and trichloroethylene is less then 50%, no WQ-based limits are imposed. However, since zinc and trichloroethylene were found to be present, but not in significant amounts, monitoring and reporting are required. Cr (T) limits are imposed based on ELGs. The basis of the remaining monitoring conditions was not described.

Special Conditions Basis:
The permit requires the implementation of baseline BMPs. Storm water discharges are authorized as long as they do not violate State water quality standards. If toxicity is suspected, the permittee may be required to develop a program for whole effluent toxicity monitoring and the preparation of a toxicity reduction evaluation plan; where specified, 90 days are provided to submit a toxicity study plan, 90 days are provided to conduct the study after approval, and 270 days are provided to implement the TRE if a TRE is required. State-specific sludge monitoring, reporting, and disposal conditions are included; a plan of operation for land application is required upon written notification. The bases of these conditions were not described.

Effective Date: 10/23/92 **Expiration Date:** 08/31/97 **Abstract Date:** 03/31/93

Facility Name: US Naval Submarine Base | Permit Number: GA0027707

Facility Description: Submarine support facility with metal plating and launch tube ops. | SIC Code: 9731

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	-	√	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfalls 001, 002, 003, and 004. All outfall numbers were created for abstracting purposes.

Outfall: 001 | Receiving Water: Kings Bay | Treatment: Not described.

Amount/Components:
Unspecified amount of Water Pollution Control Plant discharge.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
1,1,2-Trichloroethane	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
Al (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
BOD5	100.000000 lb/d 24.000000 mg/l	150.000000 lb/d 36.000000 mg/l		3/week	composite
Bromoform	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
Cd (T)	N/A Report mg/l	N/A Report mg/l		1/month	composite
Cr	N/A Report mg/l	N/A Report mg/l		1/month	composite
Cu	N/A Report mg/l	N/A Report mg/l		1/month	composite
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	1/week	grab
Fe	N/A Report mg/l	N/A Report mg/l		1/month	composite
Flow	0.500000 MGD N/A	0.750000 MGD N/A		continuous	recorder
Hg	N/A Report mg/l	N/A Report mg/l		1/month	composite
Methylene chloride	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
Ni	N/A Report mg/l	N/A Report mg/l		1/month	composite
O&G	N/A N/A	104.000000 lb/d 25.000000 mg/l		1/week	grab
Pb	N/A Report mg/l	N/A Report mg/l		1/month	composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Phenol	N/A Report mg/l	N/A Report mg/l		1/quarter	grab

Facility Name: US Naval Submarine Base				Permit Number: GA0027707	
Facility Description: Submarine support facility with metal plating and launch tube ops.					SIC Code: 9731
Toluene	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
Trichloroethylene	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
TSS	100.000000 lb/d 24.000000 mg/l	150.000000 lb/d 36.000000 mg/l		3/week	composite
Zn	N/A Report mg/l	N/A Report mg/l		1/month	composite

Limitations/Monitoring Basis:
As this is a permit modification, based on the addition of an industrial wastewater pretreatment plant, the bases for the water pollution control plant limits were not included.

Outfall: 002 | **Receiving Water:** Kings Bay | **Treatment:** Not described.

Amount/Components:
Unspecified amount of Industrial Wastewater Pretreatment Plant effluent.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Al	N/A Report mg/l	N/A Report mg/l		2/month	composite
Cd	N/A 0.070000 mg/l	N/A 0.100000 mg/l		2/month	composite
CN (T)	N/A Report mg/l	N/A Report mg/l		2/month	grab
Cr (T)	N/A 0.500000 mg/l	N/A N/A		2/month	composite
Cu	N/A 0.700000 mg/l	N/A N/A		2/month	composite
Fe	N/A Report mg/l	N/A Report mg/l		2/month	composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
Hg	N/A 0.002000 mg/l	N/A N/A		2/month	composite
Metals (T)	N/A 2.000000 mg/l	N/A N/A	See below	2/month	composite
Ni	N/A Report mg/l	N/A Report mg/l		2/month	composite
Pb	N/A 0.100000 mg/l	N/A N/A		2/month	composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Zn	N/A 1.000000 mg/l	N/A N/A		2/month	composite

Limitations/Monitoring Basis:
The basis for this permit modification is the addition of an industrial wastewater pretreatment plant. The limits for the individual metals are based on BPJ, cited as "engineer's estimated performance." The limit for metals (T) is based on the contract document's specifications. Total metals consist of the sum of Cu, Cd, Fe, Pb, Ni, Cr, Zn, and Al. Cn(T), metals, and organics are being monitored at this outfall because they are expected to be present. Only bronoform and CN were reported as detected on the 2C application; organics are not expected at levels of concern but CN and metals may be at levels of concern and thus are monitored more frequently. pH limits are set in accordance with the facility's request via specific correspondence.

Facility Name: US Naval Submarine Base | Permit Number: GA0027707

Facility Description: Submarine support facility with metal plating and launch tube ops. | SIC Code: 9731

Outfall: 003 | Receiving Water: Kings Bay | Treatment: Not described.

Amount/Components:
Unspecified amount of Batch Wastewater Treatment System discharge of treated launce tube wastewater.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
CN (A)	N/A 0.050000 mg/l	N/A 0.100000 mg/l		1/batch	grab
Flow	N/A Report gal	N/A Report gal	See below		
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/batch	grab

Limitations/Monitoring Basis:
The limits for CN are based on contract document specifications. Report volume for flow for each batch. Flow monitoring and sample time were not specified. The bases of the monitoring requirements were not described.

Outfall: 004 | Receiving Water: Kings Bay | Treatment: Not described.

Amount/Components:
Unspecified amount of Batch Wastewater Treatment System discharge of treated plating solutions.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Ag	N/A 0.240000 mg/l	N/A 0.430000 mg/l		1/year	grab
Cd	N/A 0.070000 mg/l	N/A 0.110000 mg/l		1/year	grab
CN (A)	N/A 0.050000 mg/l	N/A 0.100000 mg/l		1/batch	grab
Cr (T)	N/A 1.710000 mg/l	N/A 2.770000 mg/l		1/year	grab
Cu	N/A 2.070000 mg/l	N/A 3.380000 mg/l		1/year	grab
Flow	Report gal N/A	Report gal N/A	See below	1/batch	
Ni	N/A 2.380000 mg/l	N/A 3.980000 mg/l		1/year	grab
Pb	N/A 0.430000 mg/l	N/A 0.690000 mg/l		1/year	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/batch	grab
TTOs	N/A N/A	N/A 2.130000 mg/l		1/year	grab
Zn	N/A 1.480000 mg/l	N/A 2.610000 mg/l		1/year	grab

Limitations/Monitoring Basis:
The limits for CN are based on contract document specifications since they are more stringent than promulgated guidelines under 40 CFR Part 433. The limits for metals and TTO are based on NSPS ELGs for metal finishing (40 CFR Part 433). Components of TTO are specified under 40 CFR 433.11. The permit requires that all toxic organics with quantifiable concentrations greater than 10 ug/l to be added in summing TTO. In lieu of monitoring for TTOs, the permittee may make the certification described in the special requirements section. Report volume of each batch for flow monitoring. Flow sample type was not specified in the permit. Monitoring requirements and pH limitations were not described.

Facility Name: US Naval Submarine Base	Permit Number: GA0027707
Facility Description: Submarine support facility with metal plating and launch tube ops.	SIC Code: 9731

Special Conditions Basis:

The permit requires the implementation of baseline BMPs. Storm water discharges are authorized as long as they do not violate State water quality standards. If toxicity is suspected, the permittee may be required to develop a program for whole effluent toxicity monitoring and prepare a toxicity reduction evaluation plan; where specified, 90 days are provided to submit a toxicity study plan, 90 days are provided to conduct the study afterapproval, and 270 days are provided to implement the TRE if a TRE is required. State-specific sludge monitoring, reporting, and disposal conditions are included; a plan of operation for land application is required upon written notification. The permittee is given the option of certifying that no toxic organcis are present in the wastewater as opposed to monitoring. If the certification option is chosen, the permittee must prepare a toxic organic management plan. The permittee is required to submit a plan of study for conducting a dye or equivalent dilution study to establish mixing zones, since a dilution factor is no currently available. Other than described above, the bases of these conditions were not provided.

Effective Date: 02/12/92	Expiration Date: 04/27/94	Abstract Date: 04/02/93

Facility Name: Hilo Coast Processing Company | Permit Number: HI0000191

Facility Description: Sugar cane mill for the production of raw sugar | SIC Code: 2061

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	√	√	√	√	-	√	√

Abstract Information:
Complete; Outfalls 001, 002, 003.

Outfall: 001 | Receiving Water: Pacific Ocean | Treatment: None.

Amount/Components:
19.3 MGD of once through cooling water and storm water runoff.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A 80.000000 %	N/A N/A	See below	1/month	24hr fw composite
BOD5	N/A N/A	N/A N/A		1/quarter	grab
Chronic WET	N/A 80.000000 %	N/A N/A	See below	1/month	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
N (T)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
NH3-N	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
P (T)	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
pH	N/A N/A	N/A N/A	Report min. and max. su	1/quarter	grab
Temp.	N/A N/A	N/A N/A	Report degrees C(F)	1/week	grab
TON-N	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
TSS	N/A Report	N/A Report	Unit:lb/1000lb,gross cane	1/week	24hr fw composite

Limitations/Monitoring Basis:
TSS limitations apply to combined discharge from Outfalls 001, 002, and 003 and are ELG-based consistent with the sugar cane processing category (40 CFR Part 409; Subpart F). The acute and chronic WET limits and monitoring requirements were developed in accordance with the EPA National Policy on water quality-based permit limits for toxic pollutants (49 FR 9016) and specific EPA correspondence. Four species and their respective endpoints are set forth for use in WET testing based on a communique from EPA's National Effluent Toxicity Assessment Center. The facility must select 3 of the 4 tests (3 acute and 1 chronic) and notify the State within 45 days as to which tests will be conducted. If the limit is violated, WET monitoring will increase to 1/week until 6 consecutive tests show compliance; monitoring may be decreased if 12 consecutive months of testing show no toxicity. WET monitoring is established since it is limited. FC, though found to be present at high levels, will not be regulated since it is beleived that the FC is naturally occuring rather than a result of mill activities; specific reports are cited to substantiate this conclusion. BOD5, TSS, and pH monitoring is set forth due to ELGs citing these parameters. TSS monitoring is also established since it is limited and are consistent with the past permit. Flow monitoring is specified to allow for quantification of discharges. Monitoring for temp. is based on the thermal nature of the discharge. Monitoring for N (T), NH3-N, TON-N, and P (T) is based on the discharge data provided in the Zone of Mixing Application. Survival is present in 100% effluent for Acute WET monitoring. Fertilization is present in 100% effluent in Chronic WET monitoring.

Facility Name: Hilo Coast Processing Company | Permit Number: HI0000191

Facility Description: Sugar cane mill for the production of raw sugar | SIC Code: 2061

Outfall: 002 | Receiving Water: Pacific Ocean | Treatment: Sed

Amount/Components:
0.016 MGD of storm water runoff from cane trash area

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A Report mg/l	N/A Report mg/l		1/discharge	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
pH	N/A N/A	N/A N/A	Report min. and max. su	1/discharge	grab
SS	N/A Report ml/l	N/A Report ml/l		1/discharge	grab
TSS	N/A Report	N/A Report	Unit:lb/1000lb,gross cane	1/week	24hr fw composite

Limitations/Monitoring Basis:
TSS limitations apply to combined discharge from Outfalls 001, 002, and 003 and are ELG-based consistent with the sugar cane processing category (40 CFR Part 409; Subpart F). TSS, BOD5, and pH monitoring is set forth due to ELGs citing these parameters. Flow monitoring is specified to allow for quantification of discharges. SS monitoring is based on the fact that the storm water discharge, if it occurs, overflows a settling basin. No nutrient monitoring is specified since the discharge is basically storm water runoff and is expected to occur infrequently.

Outfall: 003 | Receiving Water: Pacific Ocean | Treatment: Sed

Amount/Components:
3.8 MGD of mill process wastewaters

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A 80.000000 %	N/A N/A	See below	1/month	24hr fw composite
BOD5	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
Chronic WET	N/A 80.000000 %	N/A N/A	See below	1/month	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		recorder	continuous
N (T)	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
NH3-N	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
P (T)	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
pH	N/A N/A	N/A N/A	Report min. and max. su	1/quarter	grab
SS	N/A Report ml/l	N/A Report ml/l		1/quarter	grab
TON-N	N/A Report mg/l	N/A Report mg/l		1/quarter	grab

Facility Name: Hilo Coast Processing Company					Permit Number: HI0000191
Facility Description: Sugar cane mill for the production of raw sugar					SIC Code: 2061
TSS	N/A Report	N/A Report	Unit:lb/1000lb gross cane	1/week	24hr fw composite

Limitations/Monitoring Basis:
TSS limitations apply to combined discharge from Outfalls 001,002, and 003 and are ELG-based consistent with the sugar cane processing category (40 CFR Part 409; Subpart F). The basis of the WET limits and monitoring requirements are the same as set forth under the outfall 001 discussion. TSS, BOD5, and pH monitoring is set forth due to ELGs citing these parameters. Flow monitoring is specified to allow for quantificaiton of discharges. SS monitoring is specified to allow for quantification of discharges. SS monitoring is established since the process waters are treated by hydroclone and sedimentation prior to discharge. Monitoring for N (T), NH3-N, TON-N, and P (T) are set forth since these parameters are commonly associated with fertilizers and are included in applicable WQS. Survival is present in 100% effluent in Acute WET monitoring. Fertilization is present in 100% effluent in Chronic WET monitoring.

Special Conditions Basis:
A sediment monitoring plan must be developed to determine the sedimentation rate allowable for the survival of the marine community; the plan must be submitted within 180 days with annual reports provided thereafter. The sediment study is required to meet 40 CFR 125.123(d)(2) requirements (as per EPA correspondence) and to ensure that no unreasonable degradation of the marine environment occurs. Receiving water limitations are set forth for N (T), NH3-N, TON-N, P (T), chlorophyll, turbidity, pH, DO, temp., and salinity and have been established considering the continuous nature of the discharge, the infrequent receiving water monitoring, and the need tocomply with WQS; 2/year receiving water monitoring is specified as per EPA correspondence, and due to the difficulty in monitoring. Aerial photos showing specific items including the receiving water are required 1/quarter on the same day as samples are taken. Annual monitoring of benthic organisms must also be conducted and must include the diversity and distribution of the biological community; this monitoring is required pursuant to EPAorrespondence and should serve as an indicator of the impacts of the discharge. These photos are designed to establish the zone of mixing; this requirement is based on EPA correspondence. If two consecutive WET tests show violations, a schedule for conducting a TRE must be submitted within 45 days. Other conditions include: (1) a compliance deadline for toxicity limits of 1 year; (2) the submittal within 45 days of a report which details how the mill's domestic sewage is disposed and indicates that such is not being discharged; and (3) daily monitoring of tons of gross sugar is required pursuant to specific EPA correspondence. Other than discussed above, the basis for these conditions were not described.

Effective Date: 09/12/91 Expiration Date: 02/28/95 Abstract Date: 04/22/93

Facility Name: California & Hawaiian Sugar Co	Permit Number: HI0000281
Facility Description: Cane Sugar refinery	SIC Code: 2062

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	√	-	√	-

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | Receiving Water: Aeia Stream | Treatment: Not described

Amount/Components:
3.17 MGD of boiler blowdown, condenser cooling water, and commpressor water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A N/A	See below	1/month	24hr fw composite
BOD5	186.000000 lb/d N/A	514.000000 lb/d N/A	See below	1/week	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/month	24hr fw composite
DO	N/A Report mg/l	N/A Report mg/l		1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
NH3-N	N/A Report mg/l	N/A Report mg/l		1/week	grab
P (T)	N/A Report mg/l	N/A Report mg/l		1/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A 104.000000 F	N/A 109.000000 F		1/week	grab
TON-N	N/A Report mg/l	N/A Report mg/l		1/week	grab
TSS	39.000000 lb/d N/A	47.000000 lb/d N/A	See below	1/week	24hr fw composite

Limitations/Monitoring Basis:
Productions based limits are included for BOD5 and TSS. The BOD5 monthly avg. limit is 0.86 lb/ton of melt and the daily max. limit is 2.38 lb/ton of melt. The TSS monthly avg. limit is 0.18 lb/ton of melt and the daily max. limit is 0.54 lb/ton of melt. Limitations are ELG-based consistent with the sugar cane processing category (40 CFR Part 409). Acute and chronic WET monitoring requirements set forth 4 species and their respective endpoints. The facility must select 2 of the 4 tests (3 acute and 1 chronic) and notify the State within 45 days as to which tests will be conducted. If the limit is violated, WET monitoring will increase to 1/week until consecutive tests show compliance; monitoring may be decreased if 12 consecutive months of testing show no toxicity. 50% survival in 100% effluent of Acute WET testing. Fertilization in 100% effluent of Chronic WET testing. The basis of the monitoring conditions were not described.

Special Conditions Basis:
Although not specifically stated in the permit, influent monitoring must be conducted to determine TSS and BOD5 discharge contributions in lb/ton of melt; influent monitoring is, however, specifically delineated in the fact sheet. Receiving water limitations are set forth for N (T), NH3-N, TON-N, P (T), chlorophyll, turbidity, pH, DO, temp., and salinity. Monitoring prior to and after the influence of the discharge impacts (locations specified) is required in order to document discharge impacts; 1/month monitoring is required the first year and 1/quarter thereafter. If two consecutive WET tests show violations, a schedule for conducting a TRE must be submitted within 45 days. Other conditions include a compliance deadline for toxicity limits of 2 years and a requirement to report the ton of melt at a frequency of 1/month. Other than discussed above, the basis for these conditions were not described.

Facility Name: California & Hawaiian Sugar Co		Permit Number: HI0000281
Facility Description: Cane Sugar refinery		SIC Code: 2062
Effective Date: 01/17/90	Expiration Date: 06/30/94	Abstract Date: 04/22/93

Facility Name: Ameron HC&D, LTD, Kappa Quarry | **Permit Number:** HI0020796

Facility Description: Stone quarry, and rock, sand, and concrete processing plant | **SIC Code:** 1492

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	-	-	-	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	√	-	√	-	-	-	-	-

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | **Receiving Water:** Kapaa Stream | **Treatment:** Sed

Amount/Components:
0.003 MGD of equipment washdown and dust control wastewaters

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/discharge	estimate
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/discharge	grab
SS	N/A 0.100000 ml/l	N/A 0.200000 ml/l		1/discharge	grab
TSS	N/A 20.000000 mg/l	N/A 50.000000 mg/l	Seasonal; see below	1/discharge	grab
Turbidity	N/A 5.000000 NTU	N/A N/A	Seasonal; see below	1/discharge	grab

Limitations/Monitoring Basis:
Limitations are based on ELGs for mineral mining and processing (40 CFR Part 436), State WQS, past permit limits, and BPJ. Receiving water limitations are set out for TSS and turbidity; however, Outfall 001 has been identified as an appropriate monitoring location. Monitoring of the receiving water is optional based on whether the permittee would like to demonstrate the influence of the receiving water on the results. These criteria vary for the wet season (Nov. 1 through Apr. 30) and dry season (May 1 through Oct. 31), and are provided for three categories: monthly avg., result not to exceed criteria more than 10% of the time, and result not to exceed criteria more than 2% of the time. Respectively, for TSS (wet weather) the limits are 20, 50, and 80 mg/l, and for TSS (dry weather) the limits are 10, 30, and 55 mg/l. Respectively, for turbidity (wet weather) the limitsare 5, 15, and 25 NTU, and for turbidity (dry weather) the limits are 2, 5.5, and 10 NTU.

Special Conditions Basis:
Within 30 days of the effective date of this permit, the Permittee shall submit to the Director of Health an updated Stormwater and Effluent Management Program for approval. The approved management program will become part of the permit. The basis of this condition was not discussed. Monitoring for receiving water quality compliance was described above.

Effective Date: 01/03/90 | **Expiration Date:** 05/31/94 | **Abstract Date:** 04/22/93

Facility Name: Dept. of Land & Nat. Resources | Permit Number: HI0021148

Facility Description: Demonstration Desalting Plant | SIC Code: 4941

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	-	-	-	√

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | Receiving Water: Ditch 2 mi. from Pacific Ocean | Treatment: RO + Ele

Amount/Components:
0.519 MGD of brine waste.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Ametryoe	N/A Report mg/l	N/A Report mg/l		1/month	grab
Atrazine	N/A Report mg/l	N/A Report mg/l		1/month	grab
Ba (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
DO	N/A N/A	N/A N/A	See below	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
N (T)	N/A 110.000000 ug/l	N/A N/A	See below	1/month	grab
NH3-N	N/A 2.000000 ug/l	N/A N/A	See below	1/month	grab
pH	N/A N/A	N/A N/A	Between 7.6 su and 8 .6 su	1/month	grab
Salinity	N/A N/A	N/A N/A	Within 10% of nat. c ond.	1/month	grab
TOC	N/A Report mg/l	N/A Report mg/l		1/month	grab
TON-N	N/A 3.500000 ug/l	N/A N/A	See below	1/month	grab
Turbidity	N/A 0.200000 NTU	N/A N/A	See below	1/month	grab

Limitations/Monitoring Basis:
Receiving water limitations for N (T), TON-N, NH3-N, turbidity, DO, pH, and salinity were based on Hawaii Administrative Rules, Title 11, Department of Health, Chapter 54 Water Quality Standards. Additional limitations for these parameters are expressed as limits not to exceed the given value more than 10% of the time, and not to exceed the given value more than 2% of the time as follows: N (T) limits are 180 and 250 ug/l; NH3-N limits ar 5 and 9 ug/l; TON-N limits are 10 and 20 ug/l; and turbidity limits are 0.5 and 1.0 NTU; respectively. The basis of monitoring requirements for ametryoe, atrazine, TOC, or Ba(T) were not discussed although these compounds were noted as being detected in the discharge. DO limitations are set at not less than 75% saturation. The basis of the remaining monitoring conditions was not discussed.

Special Conditions Basis:
Receiving water monitoring for N (T), NH3-N, TON-N, turbidity, pH, DO, and salinity shall be conducted 1/month; limits are also imposed to prevent violations of water quality standards. Within 60 days of the effective date of this permit, the Permittee shall submit to the Director of Health a receiving water monitoring program detailing the sampling requirements of the permit. The permittee is required to inspect the unlined drainage ditch 1/week to determine the extent of the brine discharge. Other than described above, the basis of these conditions was not discussed.

Effective Date: 04/15/90 | Expiration Date: 07/31/95 | Abstract Date: 04/22/93

Facility Name: Dept. of Land & Nat. Resources	Permit Number: HI0021148
Facility Description: Demonstration Desalting Plant	SIC Code: 4941

Facility Name: IELP 6th Street Station	Permit Number: IA0000132
Facility Description: Steam Electric Power Company Plant	SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	-	-	✓	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	✓

Abstract Information:
Complete; Outfalls 001 (interim limits), 001A (final limits), 002(interim limits), and 002A (final limits). 001A and 002A were created for abstract purposes.

Outfall: 001 | Receiving Water: Cedar River | Treatment: None

Amount/Components:
Unspecified amount of condenser cooling water and boiler blowdown.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A 1.000000 T.U.	N/A N/A	see below	1/year	24 hr composite
Flow	N/A 59.000000 mgd	N/A 106.120000 mgd		1/day	24 hour total
Other	N/A 1.450000 mg/l	N/A N/A	NaBr/NaClO	1/day	measure
Temp.	N/A N/A	N/A 103.000000	units: degrees Farenheit	1/day	grab
TRC	N/A N/A	N/A 0.200000 mg/l	See below	1/2 weeks	grab

Limitations/Monitoring Basis:
Acute toxicity must be tested using ceriodaphnia and pimphales. No limitations basis is provided in the permit. TRC interim limit is equal to that required under effluent guidelines. For TRC, the ratio of NaBr to sodium hypochlorite is 1.45 or greater, to ensure complete conversion of the sodium hypochlorite to NaCl and HOBr. If the ratio of NaBr to sodium hypochlorite is 1.45 or greater, the amount of chlorine in the effluent is considered to be zero. TROs must be measured using the amperometric method specified in Standard Methods, 17th edition. Duration of chlorination must be recorded at a frequency of 1/day.

Outfall: 001A | Receiving Water: Cedar River | Treatment: None

Amount/Components:
Unspecified amount of condenser cooling water and boiler blowdown.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A 1.000000	N/A N/A	see below	1/year	24 hr composite
Flow	N/A 59.000000 MGD	N/A 106.120000 MGD		1/day	24 hour total
Other	N/A 1.450000 mg/l	N/A N/A	NaBr/NaClO	1/day	measure
Temp.	N/A N/A	N/A 103.000000	units: degrees Farenheit	1/day	grab
TRC	26.000000 lb/d 0.030000 mg/l	39.000000 lb/d 0.045000 mg/l	See below	1/2 weeks	grab

Facility Name: IELP 6th Street Station | Permit Number: IA0000132

Facility Description: Steam Electric Power Company Plant | SIC Code: 4931

TROs	N/A N/A	N/A 0.200000 mg/l		1/week	grab

Limitations/Monitoring Basis:
See Outfall 001.

Outfall: 002 | Receiving Water: Cedar River | Treatment: Sed

Amount/Components:
Unspecified amount of ash pit cooling, bearing cooling, ash sluice water, and miscellaneous equipment cooling water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A 1.000000 T.U.	N/A N/A	see below	1/year	24 hr composite
Flow	N/A 1.150000 mgd	N/A 2.020000 mgd		1/week	grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/month	grab
pH	N/A Report	N/A Report	Between 6.0 su and 9.0 su	1/month	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:
Toxicity testing must be conducted using ceriodaphnia and pimephales. Limitations basis is not provided in the permit.

Outfall: 002A | Receiving Water: Cedar River | Treatment: Sed.

Amount/Components:
Unspecified amount of ash pit cooling, bearing cooling, ash sluice water, and miscellaneous equipment cooling water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A 1.000000 T.U.	N/A N/A	see below	1/year	24 hr composite
Flow	N/A 1.150000 mgd	N/A 2.020000 mgd		1/week	grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/month	grab
pH	N/A Report	N/A Report	Between 6.0 su and 9.0 su	1/month	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:
Toxicity testing must be conducted using ceriodaphnia and pimephales. Limitations basis is not provided in the permit.

Special Conditions Basis:
For outfalls 001 and 001A, free available chlorine or TROs cannot be discharged from any unit for more than two hours in one day and only one unit in a plant can discharge free available chlorine or TROs at the same time. This is equivalent to effluent guidelines requirements for once through cooling water.

Effective Date: 03/30/93 | Expiration Date: 03/29/98 | Abstract Date: 06/22/93

Facility Name: Aluminum Company of America | Permit Number: IA0003395

Facility Description: Aluminum rolling | SIC Code: 3355

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	√	√	√

Abstract Information:
Complete; Outfalls 001, 002, 003, 004, 005, 006, and 801.

Outfall: 001 | Receiving Water: Internal outfall | Treatment: None.

Amount/Components:
Normally zero mgd (except during storms) of storm water, process water from cold rolling operations, and plant-wide process water.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/week	measure
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A 110.000000	units: degrees Fahrenheit	1/week	grab

Limitations/Monitoring Basis:
Mass limitations are based on net addition to the Mississippi River. Discharge calculations are provided in the permit. Temperature must not exceed 110 degrees Farenheit from April 1 through October 31, and must not exceed 85 degrees Farenheit from November 31 through March 31. No other limitations basis is provided.

Outfall: 002 | Receiving Water: Internal outfall | Treatment: Unspecified.

Amount/Components:
Normally zero mgd (except during storms) of storm water, process water from foil rolling operations, and sheet finishing, and plant-wide process water

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/week	measure
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A 110.000000	units: degrees Fahrenheit	1/week	grab

Limitations/Monitoring Basis:
Mass limitations are based on net addition to the Mississippi River. Discharge calculations are provided in the permit. Temperature must not exceed 110 degrees Farenheit from April 1 through October 31, and must not exceed 85 degrees Farenheit from November 31 through March 31. No other limitations basis is provided.

Outfall: 003 | Receiving Water: Internal outfall | Treatment: Unspecified.

Amount/Components:
Normally zero mgd (except during storms) of storm water, process water from foil rolling and laminating operations, and cold rolling operations.

	Limitations			Monitoring Requirements	
Parameter	daily Average	Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/week	measure

Facility Name: Aluminum Company of America | Permit Number: IA0003395

Facility Description: Aluminum rolling | SIC Code: 3355

pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A 110.000000	Units: degrees Faren heit	1/week	grab

Limitations/Monitoring Basis:
Mass limitations are based on net addition to the Mississippi River. Discharge calculations are provided in the permit. Temperature must not exceed 110 degrees Farenheit from April 1 through October 31, and must not exceed 85 degrees Farenheit from November 31 through March 31. No other limitations basis is provided.

Outfall: 004 | Receiving Water: Internal outfall | Treatment: Unspecified.

Amount/Components:
Normally zero mgd (except during storms) of storm water, process water from hot rolling and mill water reclamation operations, and plant process water

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/week	measure
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A 110.000000	Units: degrees Faren heit	1/week	grab

Limitations/Monitoring Basis:
Mass limitations are based on net addition to the Mississippi River. Discharge calculations are provided in the permit. Temperature must not exceed 110 degrees Farenheit from April 1 through October 31, and must not exceed 85 degrees Farenheit from November 31 through March 31. No other limitations basis is provided.

Outfall: 005 | Receiving Water: Internal outfall | Treatment: Unspecified.

Amount/Components:
Normally zero mgd (except during storms) of storm water, process water from hot rolling operations and plant-wide process water.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/week	measure
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A 110.000000	Units: degrees Faren heit	1/week	grab

Limitations/Monitoring Basis:
Mass limitations are based on net addition to the Mississippi River. Discharge calculations are provided in the permit. Temperature must not exceed 110 degrees Farenheit from April 1 through October 31, and must not exceed 85 degrees Farenheit from November 31 through March 31. No other limitations basis is provided.

Outfall: 006 | Receiving Water: Internal outfall | Treatment: Unspecified.

Amount/Components:
Unspecified amount of storm water, process water from ingot casting and etching, blowdown from cooling tower, and plant-wide process water.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Maximum	Other	Frequency	Sample Type

Facility Name: Aluminum Company of America | Permit Number: IA0003395

Facility Description: Aluminum rolling | SIC Code: 3355

Flow	N/A Report mgd	N/A N/A		1/week	measure
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A 110.000000	Units: degrees Faren heit	1/week	grab

Limitations/Monitoring Basis:
Mass limitations are based on net addition to the Mississippi River. Discharge calculations are provided in the permit. Temperature must not exceed 110 degrees Farenheit from April 1 through October 31, and must not exceed 85 degrees Farenheit from November 31 through March 31. No other limitations basis is provided.

Outfall: 007 | Receiving Water: Internal outfall | Treatment: Unspecified.

Amount/Components:
Unspecified amount of blowdown from river water treatment plant and Outfall 004 discharge (if any).

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/week	measure
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A 110.000000	Units: degrees Faren heit	1/week	grab

Limitations/Monitoring Basis:
Mass limitations are based on net addition to the Mississippi River. Discharge calculations are provided in the permit. Temperature must not exceed 110 degrees Farenheit from April 1 through October 31, and must not exceed 85 degrees Farenheit from November 31 through March 31. No other limitations basis is provided.

Outfall: 801 | Receiving Water: Mississippi River | Treatment: Unspecified.

Amount/Components:
Unspecified amount of total plant discharge from all outfalls.

	Limitations			Monitoring Requirements	
Parameter	daily Average	daily Maximum	Other	Frequency	Sample Type
Ag (T)	43.780000 lb/d 0.180000 mg/l	65.540000 lb/d 0.260000 mg/l		1/week	grab
Al (T)	432.000000 lb/d 3.500000 mg/l	650.000000 lb/d 5.200000 mg/l	See below	1/week	grab
As (T)	17.560000 lb/d 0.070000 mg/l	26.500000 lb/d 0.110000 mg/l		1/month	grab
Ba	N/A Report mg/l	N/A Report mg/l		1/week	grab
Cd (T)	49.500000 lb/d 0.200000 mg/l	74.450000 lb/d 0.300000 mg/l		1/week	grab
CN (T)	23.000000 lb/d 0.120000 mg/l	45.000000 lb/d 0.180000 mg/l	See below	1/week	grab
Cr (T)	34.000000 lb/d 0.160000 mg/l	59.000000 lb/d 0.240000 mg/l		1/week	grab
Cu (T)	37.600000 lb/d 0.150000 mg/l	56.390000 lb/d 0.230000 mg/l		1/month	grab
Fl	N/A Report mg/l	N/A Report mg/l		1/month	grab

Facility Name: Aluminum Company of America | **Permit Number:** IA0003395

Facility Description: Aluminum rolling | **SIC Code:** 3355

Flow	N/A Report mgd	N/A Report mgd		1/week	measure
Hg (T)	0.260000 lb/d 0.001000 mg/l	0.400000 lb/d 0.001600 mg/l		1/month	grab
Ni (T)	3337.000000 lb/d 13.500000 mg/l	5004.000000 lb/d 20.200000 mg/l		1/month	grab
O&G	5010.000000 lb/d N/A	8350.000000 lb/d N/A	See below	1/week	grab
Pb (T)	132.000000 lb/d 0.530000 mg/l	198.000000 lb/d 0.800000 mg/l		1/month	grab
PCBs (T)	N/A N/A	N/A 0.000030 mg/l	See below	1/week	grab
Phenols	257.000000 lb/d 10.400000 mg/l	385.000000 lb/d 15.600000 mg/l		1/month	grab
Se (T)	116.000000 lb/d 0.470000 mg/l	174.000000 lb/d 0.700000 mg/l		1/month	grab
Tetrachloroethylene	N/A N/A	1.800000 lb/d N/A		1/2 weeks	grab
TSS	8140.000000 lb/d N/A	17117.000000 lb/d N/A	See below	1/week	grab
Zn (T)	113.000000 lb/d 1.340000 mg/l	270.000000 lb/d 2.000000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:

Mass limitations are based on net addition to the Mississippi River (TSS, O&G, Al(T), Zn(T)). Intake water must be sampled for TSS, O&G, Al(T), Zn(T), Cr(T), and CN(T) at same frequencies as for effluent monitoring. Discharge calculations are provided in the permit. Temperature must not exceed 110 degrees Farenheit from April 1 through October 31, and must not exceed 85 degrees Farenheit from November 31 through March 31. No other limitations basis is provided. The PCB limit applies after June 1, 1993 as specified in compliance schedule.

Special Conditions Basis:

For outfall 801, compliance results reported as <0.5 ppb wil be considered to be in compliance. Monitoring for PCBs must be conducted using EPA Method 608 with results reported to a detection limit of 0.5 ppb. Results reported as <0.5 ppb will be considered to be in compliance. Weekly sampling for CN is not required if the first wastewater sample of each calendar year has less than 0.07 mg/l CN. A compliance schedule for meeting the effluent limitations is included in the permit.

Effective Date: 02/05/91 | **Expiration Date:** 02/01/96 | **Abstract Date:** 06/24/93

Facility Name: John Deere Dubuque Works | Permit Number: IA3126107

Facility Description: Not provided | SIC Code:

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	-

Abstract Information:
Partial; Outfalls 002, 003, 004, 005, 008, 011. Permit also covers outfalls 090, 010, and 014-028, (stormwater and drinking fountain water discharges.

Outfall: 002 | Receiving Water: Little Maquoketa & Mississipi | Treatment: Sed, Skimmer

Amount/Components:
Unspecified amount of noncontact cooling water, drinking fountain drains and storm water discharge.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A 1.000000 TU	N/A N/A	see below	1/year	24 hr composite
Flow	N/A 2.534000 mgd	N/A 3.800000 mgd		5/week	24 hr total
O&G	211.000000 lb/d 10.000000 mg/l	317.000000 lb/d 15.000000 mg/l		1/week	grab
pH	Report N/A	Report N/A	Between 6.0 su and 9.0 su	1/week	grab
Temp.	N/A N/A	N/A 95.000000	units: degrees Farenheit	1/week	grab

Limitations/Monitoring Basis:
WET testing must be conducted using both Ceriodaphnia and Pimephales. The effluent must show no toxicity. pH minimum is a weekly average minimum. No further information is provided for the limitations basis.

Outfall: 003 | Receiving Water: Little Maquoketa & Mississipi | Treatment: Sed, Aer

Amount/Components:
Unspecified amount of treated domestic wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	daily Maximum	Other	Frequency	Sample Type
BOD5	50.000000 lb/d 30.000000 mg/l	75.000000 lb/d 45.000000 mg/l	See below	1/week	24 hr composite
DO	N/A N/A	N/A N/A		2/week	grab
FC	N/A 20.700000	N/A N/A	Units:#/100 ml, see below	1/quarter	
Flow	N/A 0.200000 mgd	N/A 0.240000 mgd		1/day	24 hr total
NH3-N	N/A Report mg/l	N/A N/A		1/quarter	24 hr composite
pH	Report N/A	Report N/A	Between 6.0 su and 9.0 su	1/week	grab
Temp.	N/A N/A	N/A 95.000000	units: degrees Farenheit	2/week	grab
TRC	0.070000 lb/d 0.093000 mg/l	0.100000 lb/d 0.170000 mg/l	See below	2/week	grab

Facility Name: John Deere Dubuque Works					Permit Number: IA3126107
Facility Description: Not provided					SIC Code:
TSS	50.000000 lb/d 30.000000 mg/l	75.000000 lb/d 45.000000 mg/l	See below	1/month	24 hr composite

Limitations/Monitoring Basis:
Fecal coliform limitations apply for summer only (April 1-October 31). No further information is provided for the limitations basis. Intake monitoring required for Temp., BOD5, TSS and pH at same frequencies and sample type as for effluent monitoring.

Outfall: 004 | **Receiving Water:** Little Maquoketa and Mississip | **Treatment:** None.

Amount/Components:
Unspecified amount of condenser cooling water from electrical generator.

	Limitations			Monitoring Requirements	
Parameter	daily Average	daily Maximum	Other	Frequency	Sample Type
Flow	N/A 21.000000 mgd	N/A 23.000000 mgd		1/month	24 hr total
pH	Report N/A	Report N/A	Between 6.0 and 10.0 su	1/month	grab
TRC	N/A N/A	N/A 0.200000 mg/l		1/event	grab

Limitations/Monitoring Basis:
The maximum increase in temperature must not exceed 5.4 degrees celcius. TRC samples must be collected at the condenser discharge before mixing with other wastestreams. Samples must be collected only on days when the condenser is chlorinated. No further information is provided on the limitations basis.

Outfall: 005 | **Receiving Water:** Little Maquoketa & Mississipi | **Treatment:** Sed, API

Amount/Components:
Unspecified amount of noncontact cooling water, drinking fountain drains, and stormwater discharge.

	Limitations			Monitoring Requirements	
Parameter	daily Average	daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A 1.000000	N/A N/A	see below	1/year	24 hr composite
Flow	N/A 9.000000 mgd	N/A 13.500000 mgd		1/day	24 hr total
O&G	751.000000 lb/d 10.000000 mg/l	1126.000000 lb/d 15.000000 mg/l		1/week	grab
pH	Report N/A	Report N/A	Between 6.0 su and 9.0 su	1/week	grab
Temp.	N/A N/A	N/A 95.000000	units: degrees Farenheit	1/week	grab

Limitations/Monitoring Basis:
WET testing must be conducted using both ceriodaphnia and pimephales. The effluent must show no toxicity. No further information is provided for the limitations basis.

Outfall: 008 | **Receiving Water:** Little Maquoketa & Mississipi | **Treatment:** Sed

Amount/Components:
Unspecified amount of tractor wash booth drain, landfill leachate, and storm water.

	Limitations			Monitoring Requirements	
Parameter	daily Average	daily Maximum	Other	Frequency	Sample Type
Cd (T)	0.080000 lb/d 0.240000 mg/l	0.120000 lb/d 0.350000 mg/l		1/month	grab

Facility Name: John Deere Dubuque Works | Permit Number: IA3126107

Facility Description: Not provided | SIC Code:

Cr+6	0.060000 lb/d 0.190000 mg/l	0.100000 lb/d 0.280000 mg/l		1/month	grab
Cu (T)	0.060000 lb/d 0.180000 mg/l	0.090000 lb/d 0.270000 mg/l		1/month	grab
Flow	N/A 0.045000 mgd	N/A 0.135000 mgd		1/month	24 hr total
NH3-N	5.100000 lb/d 15.000000 mg/l	7.600000 lb/d 22.000000 mg/l		1/quarter	grab
Pb (T)	0.210000 lb/d 0.630000 mg/l	0.320000 lb/d 0.950000 mg/l		1/month	grab
pH	Report N/A	Report N/A	Between 6.0 su and 9.0 su	1/month	grab
Temp.	N/A N/A	N/A 95.000000	units: degrees Farenheit	1/month	grab
Zn (T)	0.530000 lb/d 1.500000 mg/l	0.800000 lb/d 2.300000 mg/l		1/month	grab

Limitations/Monitoring Basis:
The NH3-N limitations are applicable for January and February only. Seasonal NH3-N limit applies March through June and September through December. The NH3-N limit in January and February is 41 mg/l and 14 lb/d (monthly average) and 62 mg/l and 21 lb/d (daily max). NH3-N limit is 15 mg/l and 4.9 lb/d (monthly avg. and 22 mg/l and 7.4 lb/d (daily max) for July - August.

Outfall: 011 | Receiving Water: Little Maquoketa & Mississipi | Treatment: Unspecified chemical/biological

Amount/Components:
Unspecified amount of process wastewater from treatment plant.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A 1.000000 TU	N/A Report	see below	1/year	24 hr composite
Ag (T)	0.700000 lb/d 0.240000 mg/l	1.260000 lb/d 0.430000 mg/l		1/6 months	24 hr composite
BOD5	88.000000 lb/d 30.000000 mg/l	131.000000 lb/d 45.000000 mg/l		2/week	24 hr composite
Cd (T)	0.760000 lb/d 0.260000 mg/l	1.490000 lb/d 0.510000 mg/l		2/week	24 hr composite
CN (T)	0.580000 lb/d 0.200000 mg/l	0.880000 lb/d 0.300000 mg/l		1/6 months	grab
Cr (T)	5.000000 lb/d 1.710000 mg/l	8.000000 lb/d 2.770000 mg/l		2/week	24 hr composite
Cr+6	0.820000 lb/d 0.270000 mg/l	1.200000 lb/d 0.410000 mg/l		2/week	24 hr composite
Cu (T)	1.830000 lb/d 0.630000 mg/l	2.730000 lb/d 0.940000 mg/l		2/week	24 hr composite
Flow	N/A 0.350000 mgd	N/A 0.400000 mgd		7/week	24 hr total
Ni (T)	7.000000 lb/d 2.380000 mg/l	11.620000 lb/d 3.980000 mg/l		2/week	24 hr composite
O&G	76.000000 lb/d 26.000000 mg/l	152.000000 lb/d 52.000000 mg/l		2/week	grab
Pb (T)	1.260000 lb/d 0.430000 mg/l	2.000000 lb/d 0.690000 mg/l		2/week	24 hr composite

Facility Name: John Deere Dubuque Works | **Permit Number:** IA3126107

Facility Description: Not provided | **SIC Code:**

pH	Report N/A	Report N/A	Between 6.0 su and 9 .0 su	2/week	grab
Temp.	N/A N/A	N/A 95.000000	units: degrees Faren heit	2/week	grab
TSS	91.000000 lb/d 31.000000 mg/l	175.000000 lb/d 60.000000 mg/l		2/week	24 hr composite
TTOs	N/A N/A	6.000000 lb/d 2.130000 mg/l	see below	1/6 months	grab
Zn (T)	4.320000 lb/d 1.480000 mg/l	7.620000 lb/d 2.610000 mg/l		2/week	24 hr composite

Limitations/Monitoring Basis:
WET testing must be conducted using both ceriodaphnia and pimephales. The effluent must show negative toxicity. Total toxic organic pollutants ("other") are limited to the following parameters: 1,1-DCA, 1,1-DCE, T-1, 2-DCE, chloroform, 1,1,1-TCA, carbon tetrachloride, TCE, 1,1,2-trichloroethanne, benzene, tetrachloroethene, toluene, 1,1,2,2-tetrachloroethane, ethylbenzene, and xylene. No further information is provided for the limitations/monitoring basis.

Special Conditions Basis:
Stormwater monitoring is required at Outfalls 002, 005, 006, 008, 009, 010, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, and 028, but parameters not available at time of abstracting. Sample types must be 24 hr. composites. Total Toxic Organics includes 1,1-DCE, 1,1-DCA, T-I, 2-DCE, chloroform, 1,1,1-TCA, Carbon tet, TCE, 1,1,2-Trichloroethane, benzene, tetrachloroethene, 1,1,2,2-Tetrachloroethane, toluene, ethylbenzene, and xylene.

Effective Date: 09/03/92 | Expiration Date: 09/01/97 | Abstract Date: 06/28/93

Facility Name: Monsanto Company - Muscatine | Permit Number: IA7000102

Facility Description: Organic chemical manufacturer | SIC Code: 2869

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	-	-	✓	-	-	✓

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	✓	-	-	-

Abstract Information:
Complete; Outfall 001, 002, and 003.

Outfall: 001 | Receiving Water: Missippippi River | Treatment: Not specified

Amount/Components:
Unspecified amount of organic chemical manufacturing process wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A 1.000000 TU	See below	1/year	24 hr composite
BOD5	2131.000000 lb/d N/A	6615.000000 lb/d N/A		5/week	24 hr composite
NH3-N	1358.000000 lb/d N/A	1681.000000 lb/d N/A		5/week	24 hr composite
Other	5.820000 lb/d N/A	13.250000 lb/d N/A	Herbicides, see belo w	7/week	24 hr composite
pH	Report N/A	Report N/A	Between 6.0 su and 9 .0 su	1/day	continuous
SS	N/A N/A	N/A Report mg/l		1/day	grab
TRC	14.700000 lb/d 0.177000 mg/l	22.100000 lb/d 0.266000 mg/l		5/week	grab
TSS	2332.000000 lb/d N/A	6019.000000 lb/d N/A		5/week	24 hr composite

Limitations/Monitoring Basis:
The first WET test must be conducted within 3 months of permit issuance and once per year thereafter. Toxicity testing must be conducted using Ceriodaphnia dubia and Pimephales promelas, and must follow Standard Operating Procedure: Effluent Toxicity Testing, IDNR. March 1991, and Iowa Administrative Code chapters 567-60.2 and 567-63.4(2). The diluted effluent samples must contain a minimum of 13.1% effluent water and 86.9% culture water. Monitoring and limits for Total Registered Herbicides includes the sum of all manufactured or formulated herbicides including but not limited to Lasso (alachlor), Ramrod (butachlor), Machete (propachlor), acetochlor, Avadex (triallate), Atrazine and Trifluralin. Grab samples must be collected in the aeration basin and analyzed for SS, DO, MLSS, Settleability, and temp, at a frequency of 5/week. No further discussion on limitations basis is provided in the permit.

Outfall: 002 | Receiving Water: Internal outfall | Treatment: ABS wastewater treatment plant

Amount/Components:
Unspecified amount of wastewater treatment plant effluent from ABS treatment plant.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroet hane	0.098000 lb/d N/A	0.252000 lb/d N/A		1/6 months	grab
1,1,2,2-Tetrachlo roethane	0.103000 lb/d N/A	0.261000 lb/d N/A		1/ 6 months	grab
1,1,2-Trichloroet hane	0.098000 lb/d N/A	0.252000 lb/d N/A		1/6 months	grab

Facility Name: Monsanto Company - Muscatine | Permit Number: IA7000102

Facility Description: Organic chemical manufacturer | SIC Code: 2869

1,1-Dichloroethane	0.103000 lb/d N/A	0.275000 lb/d N/A		1/6 months	grab
1,1-Dichloroethylene	0.075000 lb/d N/A	0.117000 lb/d N/A		1/6 months	grab
1,2,4-Trichlorobenzene	0.320000 lb/d N/A	0.650000 lb/d N/A		1/6 months	24 hr composite
1,2-Dichlorobenzene	0.360000 lb/d N/A	0.760000 lb/d N/A		1/6 months	24 hr composite
1,2-Dichloroethane	0.320000 lb/d N/A	0.980000 lb/d N/A		1/6 months	grab
1,2-Dichloropropane	0.714000 lb/d N/A	1.074000 lb/d N/A		1/6 months	grab
1,2-Trans-Dichloroethylene	0.098000 lb/d N/A	0.252000 lb/d N/A		1/6 months	grab
1,3-Dichlorobenzene	0.140000 lb/d N/A	0.210000 lb/d N/A		1/6 months	24 hr composite
1,3-Dichloropropene	0.135000 lb/d N/A	0.205000 lb/d N/A		1/6 months	grab
1,4-Dichlorobenzene	0.070000 lb/d N/A	0.130000 lb/d N/A		1/6 months	24 hr composite
2,4-Dichlorophenol	0.180000 lb/d N/A	0.520000 lb/d N/A		1/6 months	24 hr composite
2,4-Dimethylphenol	0.080000 lb/d N/A	0.170000 lb/d N/A		1/6 months	24 hr composite
2,4-Dinitrophenol	0.330000 lb/d N/A	0.570000 lb/d N/A		1/6 months	24 hr composite
2,4-Dinitrotoluene	0.530000 lb/d N/A	1.330000 lb/d N/A		1/6 months	24 hr composite
2,6-Dinitrotoluene	1.190000 lb/d N/A	2.990000 lb/d N/A		1/6 months	24 hr composite
2-Chlorophenol	0.140000 lb/d N/A	0.460000 lb/d N/A		1/6 months	24 hr composite
2-Nitrophenol	0.190000 lb/d N/A	0.320000 lb/d N/A		1/6 months	24 hr composite
3,4-Benzofluoranthene	0.110000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
4,6-Dinitro-o-cresol	0.360000 lb/d N/A	1.290000 lb/d N/A		1/6 months	24 hr composite
4-Nitrophenol	0.340000 lb/d N/A	0.580000 lb/d N/A		1/6 months	24 hr composite
Acenaphthene	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Acenaphthylene	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Acrylonitrile	0.450000 lb/d N/A	1.130000 lb/d N/A		1/month	grab
Anthracene	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Benzene	0.173000 lb/d N/A	0.635000 lb/d N/A		1/6 months	grab

Facility Name: Monsanto Company - Muscatine | Permit Number: IA7000102

Facility Description: Organic chemical manufacturer | SIC Code: 2869

Benzo (a) anthracene	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Benzo (a) pyrene	0.110000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Benzo (k) fluoranthane	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Bis (2-chlorisopropyl) ether	1.400000 lb/d N/A	3.530000 lb/d N/A		1/6 months	24 hr composite
Bis (2-ethylhexyl) phthalate	0.480000 lb/d N/A	1.300000 lb/d N/A		1/6 months	24 hr composite
BOD5	112.000000 lb/d N/A	299.000000 lb/d N/A	See below	2/week	24 hr composite
Carbon tetrachloride	0.084000 lb/d N/A	0.177000 lb/d N/A		1/6 months	grab
Chlorobenzene	0.070000 lb/d N/A	0.130000 lb/d N/A		1/month	grab
Chloroethane	0.490000 lb/d N/A	1.250000 lb/d N/A		1/6 months	grab
Chloroform	0.098000 lb/d N/A	0.215000 lb/d N/A		1/6 months	grab
Chrysene	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
CN (T)	1.960000 lb/d N/A	5.600000 lb/d N/A		1/month	grab
Cr (T)	5.180000 lb/d N/A	12.930000 lb/d N/A		1/6 months	24 hr composite
Cu (T)	6.770000 lb/d N/A	15.770000 lb/d N/A		1/6 months	24 hr composite
Di-n-butyl phthalate	0.130000 lb/d N/A	0.270000 lb/d N/A		1/6 months	24 hr composite
Diethyl phthalate	0.380000 lb/d N/A	0.950000 lb/d N/A		1/6 months	24 hr composite
Dimethyl phthalate	0.090000 lb/d N/A	0.220000 lb/d N/A		1/6 months	24 hr composite
Ethylbenzene	0.150000 lb/d N/A	0.504000 lb/d N/A		1/month	grab
Fluoranthene	0.120000 lb/d N/A	0.320000 lb/d N/A		1/6 months	24 hr composite
Fluorene	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Hexachlorobenzene	0.070000 lb/d N/A	0.130000 lb/d N/A		1/6 months	24 hr composite
Hexachlorobutadiene	0.090000 lb/d N/A	0.230000 lb/d N/A		1/6 months	24 hr composite
Hexachloroethane	0.100000 lb/d N/A	0.250000 lb/d N/A		1/6 months	24 hr composite
Methyl chloride	0.400000 lb/d N/A	0.890000 lb/d N/A		1/6 months	grab
Methylene chloride	0.190000 lb/d N/A	0.420000 lb/d N/A		1/6 months	grab

Facility Name: Monsanto Company - Muscatine | Permit Number: IA7000102

Facility Description: Organic chemical manufacturer | SIC Code: 2869

Naphthalene	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Ni (T)	7.890000 lb/d N/A	18.570000 lb/d N/A		1/6 months	24 hr composite
Nitrobenzene	0.130000 lb/d N/A	0.320000 lb/d N/A		1/6 months	24 hr composite
Pb (T)	1.490000 lb/d N/A	3.220000 lb/d N/A		1/6 months	24 hr composite
pH	Report N/A	Report N/A	Between 6.0 su and 9.0 su	1/day	continuous
Phenanthrene	0.100000 lb/d N/A	0.280000 lb/d N/A		1/6 months	24 hr composite
Phenol	0.070000 lb/d N/A	0.120000 lb/d N/A		1/6 months	24 hr composite
Pyrene	0.120000 lb/d N/A	0.310000 lb/d N/A		1/6 months	24 hr composite
Toluene	0.121000 lb/d N/A	0.374000 lb/d N/A		1/6 months	grab
Trichloroethylene	0.098000 lb/d N/A	0.252000 lb/d N/A		1/6 months	grab
TSS	187.000000 lb/d N/A	607.000000 lb/d N/A		5/week	24 hr composite
Vinyl chloride	0.490000 lb/d N/A	1.250000 lb/d N/A		1/6 months	grab
Zn (T)	4.900000 lb/d N/A	12.180000 lb/d N/A		1/6 months	24 hr composite

Limitations/Monitoring Basis:
The pH must be maintained within the limitations specified except if: 1) the pH limitation is exceeded for less than 7 hours and 26 minutes in any calendar month, or 2) the pH limitation is exceeded for less than 60 minutes. No further discussion on limitations basis is provided in the permit.

Outfall: 003 | Receiving Water: Internal outfall | Treatment: Ag wastewater treatment plant

Amount/Components:
Unspecified amount of wastewater treatment plant effluent from Ag waste treatment plant.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
1,2-Dichloroethane	N/A N/A	N/A Report		1/6 months	grab
BOD5	1125.000000 lb/d N/A	5205.000000 lb/d N/A	See below	5/week	24 hr composite
COD	6331.000000 lb/d N/A	9114.000000 lb/d N/A		1/week	24 hr composite
Other	1.120000 lb/d N/A	4.510000 lb/d N/A	total registered herbicid	7/week	24 hour composite
pH	Report N/A	Report N/A	Between 6.0 su and 9.0 su	1/day	continuous

Facility Name: Monsanto Company - Muscatine					Permit Number: IA7000102
Facility Description: Organic chemical manufacturer					SIC Code: 2869
TSS	1266.000000 lb/d N/A	4291.000000 lb/d N/A		5/week	24 hr composite

Limitations/Monitoring Basis:
The pH must be maintained within the limitations specified except if: 1) the pH limitation is exceeded for less than 7 hours and 26 minutes in any calendar month, or 2) the pH limitation is exceeded for less than 60 minutes. Total registered herbicides include alachlor, butachlor, propachlor, acetochlor, aradex and atrazine. No further discussion on limitations basis is provided in the permit. Total registered herbicides includes all manufactured formulas, including but not limited to Lasso (alachlor), Ramrod (butachlor), Machete (parachlor), acetochlor, Avadex (triallate), atrazine and triflurelin.

Special Conditions Basis:
Influent flow (24 hour) and BOD5 (24 hr. comp.) monitoring is required at the influent of the ABS and Ag treatment units, at frequencies of 2/week and 5/week respectively. For Outfall 001, a TRE is required if two successive positive toxicity results are achieved or if three positive results out of five are achieved. If positive toxicity results, monitoring frequency increases to 1/quarter. For all 3 outfalls, the pH limitations may be exceeded if: 1) the total time of pH limitation is exceeded less than 7 hours and 26 minutes in any calendar month, or 2) the pH limitation is not exceeded for more than 60 minutes at any one time. Total flow monitoring and reporting is required for Outfall 001 and may be measured as the summed flow from Outfall 002 and 003 or as the summed influent to the ABS and Ag waste treatment plants. Sample frequency/type is specified as 1/day and24 hr commp. for alachlor, butachlor, propachlor and acetochlor.

Effective Date: 03/06/89 Expiration Date: 03/01/94 Abstract Date: 06/23/93

Facility Name: DOI, FWS Hagerman Nat'l Fish | Permit Number: ID0000825

Facility Description: Fish hatching and rearing facility | SIC Code: 0921

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	√	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	√	-	-	-	-	√

Abstract Information:
Complete; Outfalls 001 and 002.

Outfall: 001 | Receiving Water: Riley Creek | Treatment: Sed

Amount/Components:
Unspecified amount of raceway or pond discharges.

Parameter	Limitations: Monthly Average	Limitations: Instant Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/month	total
NH3 (T)	N/A Report mg/l	N/A Report mg/l	See below	1/2 months	24hr fw composite
P (T)	N/A Report mg/l	N/A Report mg/l	See below	1/2 months	24hr fw composite
SS	N/A 0.100000 mg/l	N/A N/A		2/month	grab
TKN	N/A Report mg/l	N/A Report mg/l	See below	1/2 months	24hr fw composite
TON	N/A Report mg/l	N/A Report mg/l	See below	1/2 months	24hr fw composite
TSS	N/A 5.000000 mg/l	N/A 15.000000 mg/l		1/2 months	24hr fw composite

Limitations/Monitoring Basis:
Constituents of concern are solids associated with fish fecal material and uneaten fish foods. Effluent limits were based on BPJ using the best conventional technology of vacuum or standpipe drain cleaning of screened raceways. This technology was evaluated as part of a study dated July 23, 1984. The limits for TSS and SS are net values. In order to obtain credit for net values, intake water samples must be taken on the same day, during the same period that the effluent sample is taken. Nutrient parameters must also be reported as net values. Frequency of monitoring is based on variability in operations, magnitude of pollutants, and difficulty in monitoring for certain pollutants. Sample type may either be 8hr or 24hr flow-weighted composites. Nutrient monitoring (TON, NH3, TKN, P) is required for one year unless the permittee opts to participate in a nutrient characterization study as discussed in special conditions. Requirements are consistent with data requirements of Snake River Study designed to assess cumulative impacts of nutrients from dischargers. Monitoring requirements are based on variability in operations, magnitude of pollutants, and difficulty in monitoring for certain pollutants. Frequencies and parameters of the nutrients to be monitored are consistent with requirements for other facilities of this type and size in the Idaho fish-culturing industry.

Outfall: 002 | Receiving Water: Riley Creek | Treatment: Sed

Amount/Components:
Unspecified amount of cleaning waste treatment system discharges.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report mg/l	N/A Report MGD		1/week	total
NH3 (T)	N/A Report mg/l	N/A Report mg/l	See below	1/month	8hr fw composite
P (T)	N/A Report mg/l	N/A Report mg/l	See below	1/month	8hr fw composite

Facility Name: DOI, FWS Hagerman Nat'l Fish					Permit Number: ID0000825
Facility Description: Fish hatching and rearing facility					SIC Code: 0921
SS	N/A N/A	N/A 1.000000 mg/l		1/week	grab
TKN	N/A Report mg/l	N/A Report mg/l	See below	1/month	8hr fw composite
TON	N/A Report mg/l	N/A Report mg/l	See below	1/month	8hr fw composite
TSS	N/A N/A	N/A 100.000000 mg/l		1/month	8hr fw composite

Limitations/Monitoring Basis:

Constituents of concern are solids associated with fish fecal material and uneaten fish foods. Percent removal for cleaning waste treatment system is not included as a parameter because unique conditions exist such that solids do not accumulate in raceways (i.e., daily cleaning and low fish/flow ratio). Also, monitoring of TSS and SS from 1988 to 1989 showed low values. Therefore, it would be difficult to accurately determine compliancewith % removal parameter. Monitoring of TSS and SS is required in order to characterize the effluent and assess overall treatment efficiency. Nutrient monitoring is being required as described above in the outfall 001 discussion. Monitoring requirements are based on variability in operations, magnitude of pollutants, and difficulty in monitoring for certain pollutants. The frequencies and parameters of the nutrients to be monitored areconsistent with requirements for other facilities of this type and size in the Idaho fish-culturing industry.

Special Conditions Basis:

The permit limits the use of drugs, medications, disinfectants, and disease control chemicals to: those approved for hatchery used by USFDA or EPA; those exempt from registration for fishing use; or those declared generally safe by USDA. Products must be used in accordance with the permitted uses and applications specified by the manufacturer. Discharge of these drugs, chemicals or medications in toxic amounts are prohibited. Chlorine used for disinfection must be neutralized prior to discharge. Reporting is also required in association with this condition. The permits allows the changes in annual productions to less than 20,000 lbs/yr with a feeding rate of less than 5,000 lbs/mo. exempt the permittee from monitoring requirements 30 days after notification to EPA. Notification is then required if the production exceeds that level. Nutrient monitoring is required as discussed above to develop a TMDL for the middle Snake River. The permittee may choose to participate in a nutrient characterization study conducted by the ID fish culturing industry or the monitoring requirements set forth above. There are specific requirements for developing a monitoring plan and implementation dates set forth for the characterization study in the permit. If the plan is not approved by 5/1/91, the nutrient monitoring above must be performed. Other special conditions address the following: (1) requirements that fish mortalities and spawning wastes not be discharged; (2) prohibition from discharging sweepings of accumulated solids from raceways or ponds; (3) prohibition for removing or raising dam boards in raceways or ponds to allow the discharge of solids; (4) prohibition on the rearing of fish in settling or cleaning waste treatment ponds; (5) prohibition from discharging untreated cleaning wastes; and (6) requirement that cleaning be performed frequently to minimize buildup of solids and that during cleaning, the release of accumulated buildup of solids is prohibited (cleaning frequency must be reported). Unless indicated above, a discussion of the need for, or the basis of the special conditions was not provided.

Effective Date: 11/26/90	Expiration Date: 11/27/95	Abstract Date: 04/04/93

Facility Name: Potlatch Corp, Lewiston Fac.	Permit Number: ID0001163
Facility Description: Production of bleached grades of paper board, tissue and market pulp	SIC Code: 2611

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	√	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	√	√	√	√	√	√	-

Abstract Information:
Complete; outfall 001.

Outfall: 001 | Receiving Water: Snake River | Treatment: PC, AS

Amount/Components:
38.6 MGD mill process wastewater

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	N/A Report ppq	N/A Report ppq	See below	1/quarter	24hr fw composite
2,3,7,8-TCDF	N/A Report ppq	N/A Report ppq		1/quarter	24hr fw composite
Al (DS)	N/A 2.500000 mg/l	N/A 3.500000 mg/l	See below	1/week	24hr fw composite
Al (TR)	N/A 2.500000 mg/l	N/A 3.500000 mg/l	See below	1/week	24hr fw composite
AOX	4862.000000 lb/d N/A	6274.000000 lb/d N/A		1/week	24hr fw composite
As (DS)	N/A 2.000000 ug/l	N/A 2.700000 ug/l	See below	1/week	24hr fw composite
As (TR)	N/A 2.000000 ug/l	N/A 2.700000 ug/l	See below	1/week	24hr fw composite
BOD5	22800.000000 lb/d N/A	43800.000000 lb/d N/A	See below	1/day	24hr fw composite
Chloroform	N/A N/A	N/A 237.000000 ug/l		1/month	grab
Chronic WET	N/A N/A	38.000000 TUc N/A		1/quarter	grab
Cr+6 (S)	N/A N/A	N/A Report ug/l		1/week	24hr fw composite
Cu (DS)	N/A N/A	N/A Report ug/l		1/week	24hr fw composite
Cu (TR)	N/A N/A	N/A Report ug\l		1/week	24hr fw composite
Flow	N/A N/A MGD	N/A N/A MGD		continuous	record
Hg (DS)	N/A 0.350000 ug/l	N/A 0.480000 ug/l	See below	1/week	24hr fw composite
Hg (TR)	N/A 0.350000 ug/l	N/A 0.480000 ug/l	See below	1/week	24hr fw composite
NH3-N	N/A 3.000000 mg/l	N/A 5.400000 mg/l		See below	24hr fw composite
P (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite

Facility Name: Potlatch Corp, Lewiston Fac. | Permit Number: ID0001163

Facility Description: Production of bleached grades of paper board, tissue and market pulp | SIC Code: 2611

Pb (DS)	N/A 72.000000 ug/l	N/A 100.000000 ug/l	See below	1/week	24hr fw composite
Pb (TR)	N/A 72.000000 ug/l	N/A 100.000000 ug/l	See below	1/week	24hr fw composite
pH	N/A N/A	N/A N/A	Between 5.0 su and 9 .0 su	continuous	Record
Se	N/A 1.000000 mg/l	N/A 1.400000 mg/l	See below	1/week	24hr fw composite
Temp.	N/A N/A	92.000000 F N/A		continuous	Record
TSS	43400.000000 lb/d N/A	80700.000000 lb/d N/A		1/day	24hr fw composite
Turbidity	N/A N/A	N/A N/A	See below	1/quarter	24hr fw composite
Zn (DS)	N/A N/A	N/A N/A ug/l		1/week	24hr fw composite
Zn (TR)	N/A N/A	N/A N/A ug/l		1/week	24hr fw composite

Limitations/Monitoring Basis:

The limitations for BOD5 and TSS are based on BPT/BCT effluent guidelines at 40 CFR Part 430 Subparts G, H, and S. For river flows less than 22,000 cfs the BOD5 limit is based on WQ considerations, with monthly average limits for BOD5 determined based on the flow in the Snake River at the diffuser, using a weighted average of the daily average limitations and production basis of 1624 tons/day. AOX limits are based on BPJ consistent with similar limits being established in OR and WA for bleached pulp and paper mills. The limit for 2,3,7,8-TCDD is based on the established TMDL. A compliance schedule to meet 2,3,7,8-TCDD limits of 0.39 mg/day annual average and 0.83 mg/day daily maximum by September 30, 1992 is included. Limits and/or monitoring for Hg, Al, As, Se, Pb, Cro+, Cu, and Zn are based on the potential for exceedance of WQSs. The Hg and As limits may be met by complying with the limits stated above or by not exceeding the concentration in the intake water, whichever is greater. The permit has a reopener clause that states that after the first year of monitoring for metals, the permit may be reopened to decrease the frequency of monitoring and/or to establish limits. Phosphorous is being monitored due to problems with algal blooms. Acute and chronic toxicity are required to be monitored and a TIE/TRE performed if limits are exceeded. NH3 is limited based on WQ considerations. The monitoring frequency is increased to daily when ammonia is added to the treatment system. The temp. limit is based on WQ. The temperature limit will not be applicable when the temperature of the Snake River 200 feet upstream is equal to or greater than 67.5 degrees F for the previous day. A limit for heat is applicable, determined by multiplying the flow in the receiving stream by 593,000 BTU/cfs day. Compliance is determined by subtracting the temperature of the discharge from the temperature of the receiving stream. The pH limit is based on WQ considerations. The permittee is required to report tons/day production.

Special Conditions Basis:

Chemical agents containing pentachlorophenol, trichlorophenol and zinc are prohibited based on BAT guidelines in 40 CFR 430. The permit requires the development of chlorinated organics control and monitoring program that includes process modifications and reduction of 2,3,7,8-TCDD, 2,3,7,8-TCDF and AOX in discharges. A dilution study plan to determine the size, configuration and dilution within the zone of initial dilution is required because the diffuser is not located perpendicular to the river flow as assumed by State criteria. The permit may be reopened based on the results. A BMP plan must be developed and maintained to address and prevent or minimize the potential for the release of toxics. Any changes to the plan must be submitted to the DMR and may cause the permit to be reopened. Compliance with the 2,3,7,8-TCDD loading limit will be determined by direct measurement of the mass discharge rate in the bleach plant effluent. Values of non-detect will be computed as 1/2 the detection value. If removal of dioxin (or another isomer or congener of dioxin or furan) in the treatment sstem can be demonstrated, compliance may be measured using the removal efficiency. Discharge to ground water is prohibited by the permit based on known leakage from the secondary treatment systems to the receiving stream. A seepage reduction/control program is required to be developed and implemented. A characterization study of the wastes in any surface impoundment is also required. Quarterly effluent monitoring resin acids, fatty acids, chlorophenol, guaiacols, catechols, and other miscellaneous organics is required. If after one year, the compounds are not detected, monitoring may be discontinued. Amounts of types of slimicides used at the facilityare required to be reported annually. A receiving stream study must be performed to monitor: 1) metals (monthly); 2) turbidity (quarterly); and 3) DO, travel time/velocity, temperature, pH, nutrients and BOD5 (weekly forthree months). After three years, the permit may be reopened to reduce the frequency of monitoring, change parameters and/or sampling locations. A study must be performed for monitoring sediments annually for all cogeners of TCDD and TCDF, extractable organic halogens, TOC, PAH, metals, and volatile sulfides. A bioaccumulation study must be performed to determine the impact of the discharge on three most affected species. Monitoring must be performed annually for all cogeners of TCDD and TCDF and percent lipid.

Effective Date: 04/07/92 | Expiration Date: 04/07/97 | Abstract Date: 04/04/93

Facility Name: Del Monte Corp., Franklin, ID | **Permit Number:** ID0001180

Facility Description: Prepares, processes and cans green beans | **SIC Code:** 2032

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	-	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | **Receiving Water:** Cub River | **Treatment:** Scr+AL+AnL+dis

Amount/Components:
.0525 mgd flow from washing, processing, cooling water, storm water and sanitation.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	523.000000 lb/d N/A	729.000000 lb/d N/A		2/week	24hr fw composite
DO	N/A N/A	N/A N/A	5 mg/l daily min	2/week	grab
FC	N/A 200.000000	N/A N/A	Units: No./100 ml		
Flow	N/A Report MGD	N/A Report MGD		2/day	instantaneous
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
TSS	705.000000 lb/d N/A	1366.000000 lb/d N/A		2/week	24hr fw composite

Limitations/Monitoring Basis:
Limitations for BOD5, TSS and pH are ELG-based upon the existing permit limits and best conventional pollutant control technology consistent with BCT for the fruit, vegetable and specialties segment of the canned and preserved fruits and vegetables point source category (40 CFR Part 407). Fecal coliform and D.O. limits are based on ID water quality standards and current permit limits. Monitoring required in the permits is necessary to demonstrate compliance with the effluent limits and to assure WQS are being met. Frequencies are based on the size and type of plant, reflecting the minimum sampling required to monitor plant performance. Sample types are based on the potential for effluent variability. Monitoring frequencies are retained from the previous permit.

Special Conditions Basis:
The permit contains a special condition requiring that the facility develop and implement a sludge/solid waste disposal program within 6 months. This program must be approved by the State and be submitted to EPA. The requirements were established based on ID State water quality standards which prohibit storage of deleterious materials adjacent to or in the immediate vicinity of State waters unless adequate controls are provided to ensure that the materials will not enter State waters as a result of runoff, wind, storage, failure, accidents, third party activities, etc. The facility stores sludges removed from their lagoons and snippings and branches from the process in piles within close proximity to the water.

Effective Date: 01/08/93 | **Expiration Date:** 01/08/98 | **Abstract Date:** 04/05/93

Facility Name: Univ.of Idaho Irrig. Lagoons | Permit Number: ID0027154

Facility Description: Aquaculture research facility | SIC Code: 8221

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	-	-	√	√

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | Receiving Water: Paradise Creek | Treatment: Dis

Amount/Components:
125 gpm of aquaculture wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A Report mg/l	N/A Report mg/l		2/month	24hr fw composite
DO	N/A N/A	N/A N/A	8.0 mg/l daily min.	2/month	grab
FC	N/A 100.000000	N/A N/A	#/100 ml;200/100 ml wk av	2/month	grab
Flow	N/A Report MGD	N/A Report MGD		weekly	record
Formaldehyde	N/A N/A	3.700000 lb/d 2.000000 mg/l		1/week	24hr fw composite
NH3 (T)	N/A Report mg/l	N/A Report mg/l	first year only	2/month	24hr fw composite
NO3	N/A Report mg/l	N/A Report mg/l	first year only	2/month	24hr fw composite
P (T)	N/A Report mg/l	N/A Report mg/l	first year only	2/month	24hr fw composite
pH	N/A N/A	N/A N/A	Report min/max, l.c.	2/week	grab
SS	N/A Report ml/l	N/A Report ml/l		2/month	24hr fw composite
TRC	N/A N/A	N/A N/A	See below	1/week	grab

Limitations/Monitoring Basis:
Limits for DO were based on water quality concerns of the receiving water at the WA State border. WA State tests performed in June 1991 showed DO levels of less than 5 mg/l. Formaldehyde is present due to ectoparasitic and fungal treatment. The limit is BPJ based on known toxicity data and the maximum discharge concentration from the facility for 1991. Additional instream studies will be required to assess the impact of the pollutant on the receiving stream. Fecal coliform limits are based on ID State standards for secondary contact recreation. The TRC limit requires that the discharge contain a concentration below that of the detection limit for the DPD method of analysis. This limit is based on the ID State water quality standard of 0.011 mg/l and negotiations with the facility. The parameters NH3(T), N)3, and P(T) are only required to be monitored during the first year of the permit. Short-term, whole effluent testing for chronic toxicity is being required and is discussed in the special conditions section below. Monitoring frequencies are based on the minimum sampling required to adequately monitor facility performance. Monitoring activities are required to be performed on the same day that the nearby POTW (Moscow Wastewater Treatment Facility) conducts their effluent discharge monitoring. A justification of this requirement was not provided.

Special Conditions Basis:
The permit limits the use of drugs, medications, disinfectants, and disease control chemicals to: those approved for hatchery use by USFDA or EPA; those exempt from registration for fishing use; or those declared generally safe by USDA. Products must be used in accordance with the permitted uses and applications specified by the manufacturer. Discharge of these drugs, chemicals or medications in toxic amounts are prohibited. An instream monitoring plan to address the close proximity of other discharges is also required to be developed and submitted within 60 days. For the first year of the permit, upstream and downstream monitoring is required as follows: 1)

Facility Name: Univ.of Idaho Irrig. Lagoons	Permit Number: ID0027154
Facility Description: Aquaculture research facility	SIC Code: 8221

for each effluent formaldehyde sample taken, upstream and downstream samples will be taken and analyzed for formaldehyde; and 2) for each effluent ammonia sample taken, upstream and downstream samples will be taken and analyzed for pH and temperature. Stream flow at the time of sampling is also required to be reported. Two chronic toxicity tests are required to be performed within 90 days of permit issuance using two species in acordance with EPA protocols. The permit may be reopened if the results of the tests show a need for additional biomonitoring or the need for a toxicity limit. Unless indicated above, a discussion of the need for or basisof the special conditions was not provided.

Effective Date: 06/16/92	Expiration Date: 06/16/97	Abstract Date: 04/04/93

Facility Name: Quantum-USI Division, Tuscola | Permit Number: IL0000141

Facility Description: Organic chemical manufacturer | SIC Code: 2821

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	-	-	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	-

Abstract Information:
Complete: 001

Outfall: 001 | Receiving Water: Kaskaskia River | Treatment: Unspecified

Amount/Components:
Maximum of 7.2 mgd of process waste, cooling tower and boiler blowdown, ion exchange regenerant waste, sanitary waste, and storm water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	0.319000 lb/d 0.021000 mg/l	0.820000 lb/d 0.054000 mg/l		1/year	grab
1,1,2-Trichloroethane	0.319000 lb/d 0.021000 mg/l	0.820000 lb/d 0.054000 mg/l		1/year	grab
1,1-Dichloroethane	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
1,1-Dichloroethylene	0.243000 lb/d 0.016000 mg/l	0.379000 lb/d 0.025000 mg/l		1/year	grab
1,2,4-Trichlorobenzene	1.032000 lb/d 0.068000 mg/l	2.125000 lb/d 0.140000 mg/l		1/year	grab
1,2-Dichlorobenzene	1.169000 lb/d 0.077000 mg/l	2.474000 lb/d 0.163000 mg/l		1/year	grab
1,2-Dichloroethane	1.032000 lb/d 0.068000 mg/l	3.203000 lb/d 0.211000 mg/l		1/year	grab
1,2-Dichloropropane	2.322000 lb/d 0.153000 mg/l	3.491000 lb/d 0.230000 mg/l		1/year	grab
1,2-Trans-Dichloroethylene	0.319000 lb/d 0.021000 mg/l	0.820000 lb/d 0.054000 mg/l		1/year	grab
1,3-Dichlorobenzene	0.471000 lb/d 0.031000 mg/l	0.668000 lb/d 0.044000 mg/l		1/year	grab
1,4-Dichlorobenzene	0.228000 lb/d 0.015000 mg/l	0.425000 lb/d 0.028000 mg/l		1/year	grab
2,4-Dichlorophenol	0.592000 lb/d 0.039000 mg/l	1.700000 lb/d 0.112000 mg/l		1/year	grab
2,4-Dimethylphenol	0.273000 lb/d 0.018000 mg/l	0.546000 lb/d 0.036000 mg/l		1/year	grab
2,4-Dinitrophenol	1.078000 lb/d 0.071000 mg/l	1.867000 lb/d 0.123000 mg/l		1/year	grab
2,4-Dinitrotoluene	1.715000 lb/d 0.113000 mg/l	4.326000 lb/d 0.285000 mg/l		1/year	grab
2,6-Dinitrotoluene	3.871000 lb/d 0.255000 mg/l	9.730000 lb/d 0.641000 mg/l		1/year	grab
2-Chlorophenol	0.471000 lb/d 0.031000 mg/l	1.488000 lb/d 0.098000 mg/l		1/year	grab
2-Nitrophenol	0.622000 lb/d 0.041000 mg/l	1.047000 lb/d 0.069000 mg/l		1/year	grab

Facility Name: Quantum-USI Division, Tuscola					Permit Number: IL0000141
Facility Description: Organic chemical manufacturer					SIC Code: 2821
3,4-Benzofluoranthene	0.349000 lb/d 0.023000 mg/l	0.926000 lb/d 0.061000 mg/l		1/year	grab
4,6-Dinitro-o-cresol	1.184000 lb/d 0.078000 mg/l	4.205000 lb/d 0.277000 mg/l		1/year	grab
4-Nitrophenol	1.093000 lb/d 0.072000 mg/l	1.882000 lb/d 0.124000 mg/l		1/year	grab
Acenaphthene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
Acenaphthylene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
Acrylonitrile	1.457000 lb/d 0.096000 mg/l	3.673000 lb/d 0.242000 mg/l		1/year	grab
Anthracene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
B	N/A N/A	118.400000 lb/d 1.970000 mg/l	See below	1/month	composite
Ba (T)	N/A N/A	670.500000 lb/d 11.140000 mg/l		1/month	composite
Benzene	0.562000 lb/d 0.037000 mg/l	2.064000 lb/d 0.136000 mg/l		1/month	grab
Benzo (a) anthracene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
Benzo (a) pyrene	0.349000 lb/d 0.023000 mg/l	0.926000 lb/d 0.061000 mg/l		1/year	grab
Benzo (k) fluoranthene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
Bis (2-ethylhexyl) phthalate	1.563000 lb/d 0.103000 mg/l	4.235000 lb/d 0.279000 mg/l		1/year	grab
BOD5	479.850000 lb/d 20.000000 mg/l	1242.000000 lb/d 40.000000 mg/l	See below	1/week	composite
Carbon tetrachloride	0.273000 lb/d 0.018000 mg/l	0.577000 lb/d 0.038000 mg/l		1/year	grab
Cd (T)	0.192000 lb/d 0.004000 mg/l	4.145000 lb/d 0.069000 mg/l		1/week	composite
Chloride	N/A N/A	N/A N/A	See below	1/day	grab
Chlorobenzene	0.228000 lb/d 0.015000 mg/l	0.425000 lb/d 0.028000 mg/l		1/year	grab
Chloroethane	1.590000 lb/d 0.104000 mg/l	4.068000 lb/d 0.268000 mg/l		1/year	grab
Chloroform	0.319000 lb/d 0.021000 mg/l	0.698000 lb/d 0.046000 mg/l		1/year	grab
Chrysene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
CN (T)	0.563000 lb/d 0.012000 mg/l	2.978000 lb/d 0.050000 mg/l		1/month	composite
Cr (T)	16.697000 lb/d 1.000000 mg/l	42.045000 lb/d 2.000000 mg/l		1/week	composite
Cu (T)	2.979000 lb/d 0.062000 mg/l	6.053000 lb/d 0.101000 mg/l		1/week	composite

Facility Name: Quantum-USI Division, Tuscola | Permit Number: IL0000141

Facility Description: Organic chemical manufacturer | SIC Code: 2821

Di-n-butyl phthalate	0.410000 lb/d 0.027000 mg/l	0.865000 lb/d 0.057000 mg/l		1/year	grab
Diethyl phthalate	1.229000 lb/d 0.081000 mg/l	3.081000 lb/d 0.203000 mg/l		1/year	grab
Dimethyl phthalate	0.288000 lb/d 0.019000 mg/l	0.713000 lb/d 0.047000 mg/l		1/year	grab
Ethylbenzene	0.486000 lb/d 0.032000 mg/l	1.639000 lb/d 0.108000 mg/l		1/month	grab
FC	N/A N/A	N/A 400.000000	units:#/100 ml	1/week	grab
Fl	N/A N/A	167.000000 lb/d 2.780000 mg/l	fluoride, see below	1/month	composite
Flow	N/A Report mgd	N/A Report mgd		continuous	24hr total
Fluoranthene	0.379000 lb/d 0.025000 mg/l	1.032000 lb/d 0.068000 mg/l		1/year	grab
Fluorene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
Hexachlorobenzene	0.228000 lb/d 0.015000 mg/l	0.425000 lb/d 0.028000 mg/l		1/year	grab
Hexachlorobutadiene	0.304000 lb/d 0.020000 mg/l	0.744000 lb/d 0.049000 mg/l		1/year	grab
Hexachloroethane	0.319000 lb/d 0.021000 mg/l	0.820000 lb/d 0.054000 mg/l		1/year	grab
Methyl chloride	1.305000 lb/d 0.086000 mg/l	2.884000 lb/d 0.190000 mg/l		1/year	grab
Methylene chloride	0.607000 lb/d 0.040000 mg/l	1.351000 lb/d 0.089000 mg/l		1/year	grab
Naphthalene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/month	grab
Ni (T)	25.650000 lb/d 1.000000 mg/l	60.410000 lb/d 2.000000 mg/l		1/year	composite
Nitrobenzene	0.410000 lb/d 0.027000 mg/l	1.032000 lb/d 0.068000 mg/l		1/year	grab
O&G	722.000000 lb/d 15.000000 mg/l	1805.000000 lb/d 30.000000 mg/l		1/week	single grab
Other	0.440000 lb/d 0.029000 mg/l	0.668000 lb/d 0.044000 mg/l	1,3-dichloropropylene	1/year	grab
Pb (T)	4.857000 lb/d N/A	10.473000 lb/d 0.181000 mg/l		1/month	composite
pH	N/A Report	N/A Report	Between 6.0 su and 9.0 su	1/week	grab
Phenanthrene	0.334000 lb/d 0.022000 mg/l	0.896000 lb/d 0.059000 mg/l		1/year	grab
Phenol	0.228000 lb/d 0.015000 mg/l	0.395000 lb/d 0.026000 mg/l		1/year	grab
Pyrene	0.379000 lb/d 0.025000 mg/l	1.017000 lb/d 0.067000 mg/l		1/year	grab
SO3	N/A N/A	N/A N/A	See below	1/day	grab

Facility Name: Quantum-USI Division, Tuscola					Permit Number: IL0000141
Facility Description: Organic chemical manufacturer					SIC Code: 2821
TDS	N/A N/A	N/A N/A	See below	1/day	grab
Tetrachloroethylene	0.334000 lb/d 0.022000 mg/l	0.850000 lb/d 0.056000 mg/l		1/year	grab
Toluene	0.395000 lb/d 0.026000 mg/l	1.214000 lb/d 0.080000 mg/l		1/month	grab
Trichloroethylene	0.319000 lb/d 0.021000 mg/l	0.820000 lb/d 0.054000 mg/l		1/year	grab
TSS	760.660000 lb/d 25.000000 mg/l	2315.240000 lb/d 50.000000 mg/l		1/week	composite
Vinyl chloride	1.579000 lb/d 0.104000 mg/l	4.068000 lb/d 0.268000 mg/l		1/year	grab
Zn (T)	15.930000 lb/d 1.000000 mg/l	39.620000 lb/d 2.000000 mg/l		1/year	composite

Limitations/Monitoring Basis:
Limits are based on previous permit, WQS, and ELG 40 CFR Part 414, OCPSF. The above effluent limits for BOD5 and TSS apply only when the discharge dilution is 5:1 or greater. If the dilution rate is less, the BOD5 monthly average loading is 479.85 lb/d and concentration is 10 mg/l; the BOD5 daily maximum loading is 1242.17 lb/d and concentration is 20 mg/l; the TSS monthly average loading is 577.5 lb/d and concentration is 12 mg/l; and the TSS daily maximum loading is 1444 lb/d and concentration is 24 mg/l. The effluent limits for TDS, sulfate, and chlorides shall be determined on a daily basis (equations are provided) based on flow rates.

Special Conditions Basis:
Daily max. fecal coliform count should not exceed 400 per 100 ml. The permit may be modified for Ba, B and F after monitoring for one year. Upstream of the discharge point shall be monitored for Cd for one year. A compliance schedule for the Cd limit is provided. The permit contains a reopener based on the promulgation of an applicable effluent standard or limitation which contains more stringent limitations. Toxicity testing is required one year prior to permit renewal. Acute toxicity testing is to be performed with 96 or 48 hour tests following EPA guidance. Two species and four dilutions must be used as well as 100% effluent. Chronic toxicity testing is also required using a green alga in a 96 hour test following EPA guidance and using four dilutions.

Effective Date: 04/10/91 **Expiration Date:** 12/01/95 **Abstract Date:** 04/27/93

Facility Name: Amoco Chemical Co. - Joliet | Permit Number: IL0001643

Facility Description: Polystyrene manufacturer | SIC Code: 2821

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	√	√	-	-	√

Abstract Information:
Partial for outfalls 001, 002 (representative of 003), and 004.

Outfall: 001 | Receiving Water: Des Plaines River | Treatment: Sed, AS, API

Amount/Components:
Approximately 1 mgd of treated process water, cooling tower blowdown, utilities blowdown, stormwater, and treated sanitary wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	0.084000 lb/d 0.021000 mg/l	0.215000 lb/d 0.054000 mg/l		1/year	grab
1,1,2-Trichloroethane	0.084000 lb/d 0.021000 mg/l	0.215000 lb/d 0.054000 mg/l		1/year	grab
1,1-Dichloroethane	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 mg/l		1/year	grab
1,1-Dichloroethylene	0.064000 lb/d 0.016000 mg/l	0.099000 lb/d 0.025000 mg/l		1/year	grab
1,2,4-Trichlorobenzene	0.271000 lb/d 0.068000 mg/l	0.557000 lb/d 0.140000 mg/l		1/year	grab
1,2-Dichlorobenzene	0.306000 lb/d 0.077000 mg/l	1.648000 lb/d 0.163000 mg/l		1/year	grab
1,2-Dichloroethane	0.270000 lb/d 0.068000 mg/l	0.839000 lb/d 0.211000 mg/l		1/year	grab
1,2-Dichloropropane	0.609000 lb/d 0.153000 mg/l	0.915000 lb/d 0.230000 mg/l		1/year	grab
1,2-Trans-Dichloroethylene	0.084000 lb/d 0.021000 mg/l	0.215000 lb/d 0.054000 mg/l		1/year	grab
1,3-Dichlorobenzene	0.123000 lb/d 0.031000 mg/l	0.175000 lb/d 0.044000 lb/d		1/year	grab
1,3-Trans-Dichloropropylene	0.155000 lb/d 0.029000 mg/l	0.175000 lb/d 0.044000 mg/l		1/year	grab
1,4-Dichlorobenzene	0.060000 lb/d 0.015000 mg/l	0.111000 lb/d 0.028000 mg/l		1/year	grab
2,4-Dichlorophenol	0.155000 lb/d 0.039000 mg/l	0.446000 lb/d 0.112000 mg/l		1/year	grab
2,4-Dimethylphenol	0.072000 lb/d 0.018000 mg/l	0.143000 lb/d 0.036000 mg/l		1/year	grab
2,4-Dinitrophenol	0.282000 lb/d 0.071000 mg/l	0.489000 lb/d 0.123000 mg/l		1/year	grab
2,4-Dinitrotoluene	0.450000 lb/d 0.113000 mg/l	1.134000 lb/d 0.285000 mg/l		1/year	grab
2,6-Dinitrotoluene	1.014000 lb/d 0.255000 mg/l	2.550000 lb/d 0.641000 mg/l		1/year	grab
2-Chlorophenol	0.123000 lb/d 0.031000 mg/l	0.390000 lb/d 0.098000 mg/l		1/year	grab

Facility Name: Amoco Chemical Co. - Joliet | Permit Number: IL0001643

Facility Description: Polystyrene manufacturer | SIC Code: 2821

2-Nitrophenol	0.163000 lb/d 0.041000 mg/l	0.274000 lb/d 0.069000 mg/l		1/year	grab
3,4-Benzofluoranthene	0.091000 lb/d 0.023000 mg/l	0.243000 lb/d 0.061000 mg/l		1/year	grab
4,6-Dinitro-o-cresol	0.310000 lb/d 0.078000 mg/l	1.102000 lb/d 0.277000 mg/l		1/year	grab
4-Nitrophenol	0.286000 lb/d 0.072000 mg/l	0.493000 lb/d 0.124000 mg/l		1/year	grab
Acenaphthene	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 lb/d		1/year	grab
Acenaphthylene	0.088000 lb/d 0.235000 mg/l	0.022000 lb/d 0.059000 mg/l		1/year	grab
Acrylonitrile	0.382000 lb/d 0.096000 mg/l	0.963000 lb/d 0.242000 mg/l		1/year	grab
Acute WET	N/A N/A	N/A 1.000000	Units: TUa, see below	1/month	composite
Anthracene	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 mg/l		1/year	grab
Benzene	0.147000 lb/d 0.037000 mg/l	0.541000 lb/d 0.136000 mg/l		1/year	grab
Benzo (a) anthracene	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 mg/l		1/year	grab
Benzo (a) pyrene	0.091000 lb/d 0.023000 mg/l	0.243000 lb/d 0.061000 mg/l		1/year	grab
Benzo (k) fluoranthene	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 mg/l		1/year	grab
Bis (2-ethylhexyl) phthalate	0.410000 lb/d 0.103000 mg/l	1.110000 lb/d 0.279000 mg/l		1/year	grab
BOD5	147.000000 lb/d 20.000000 mg/l	657.000000 lb/d 40.000000 mg/l		3/week	composite
Carbon tetrachloride	0.072000 lb/d 0.018000 mg/l	0.151000 lb/d 0.038000 mg/l		1/year	grab
Chlorobenzene	0.060000 lb/d 0.015000 mg/l	0.111000 lb/d 0.028000 mg/l		1/year	grab
Chloroethane	0.414000 lb/d 0.104000 mg/l	1.066000 lb/d 0.268000 mg/l		1/year	grab
Chloroform	0.084000 lb/d 0.021000 mg/l	0.183000 lb/d 0.046000 mg/l		1/year	grab
Chrysene	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 mg/l		1/year	grab
CN (T)	0.735000 lb/d 0.100000 mg/l	3.290000 lb/d 0.200000 mg/l		1/year	composite
Cr (TR)	4.400000 lb/d 1.000000 mg/l	11.000000 lb/d 2.000000 mg/l		1/year	composite
Cu (T)	5.800000 lb/d 0.500000 mg/l	13.400000 lb/d 1.000000 mg/l		1/year	composite
Di-n-butyl phthalate	0.107000 lb/d 0.027000 mg/l	0.227000 lb/d 0.057000 mg/l		1/year	grab
Diethyl phthalate	0.322000 lb/d 0.081000 mg/l	0.808000 lb/d 0.203000 mg/l		1/year	grab

Facility Name: Amoco Chemical Co. - Joliet | Permit Number: IL0001643

Facility Description: Polystyrene manufacturer | SIC Code: 2821

Dimethyl phthalate	0.076000 lb/d 0.019000 mg/l	0.187000 lb/d 0.047000 mg/l		1/year	grab
Ethylbenzene	0.127000 lb/d 0.032000 mg/l	0.430000 lb/d 0.108000 mg/l		1/year	grab
Flow	N/A Report mgd	N/A N/A		1/day	continuous
Fluoranthene	0.099000 lb/d 0.025000 mg/l	0.271000 lb/d 0.068000 mg/l		1/year	grab
Fluorene	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 mg/l		1/year	grab
Hexachlorobenzene	0.060000 lb/d 0.015000 mg/l	0.111000 lb/d 0.028000 mg/l		1/year	grab
Hexachlorobutadiene	0.080000 lb/d 0.020000 mg/l	0.195000 lb/d 0.049000 mg/l		1/year	grab
Hexachloroethane	0.084000 lb/d 0.021000 mg/l	0.215000 lb/d 0.054000 mg/l		1/year	grab
Methyl chloride	0.342000 lb/d 0.086000 mg/l	0.756000 lb/d 0.190000 mg/l		1/year	grab
Methylene chloride	0.159000 lb/d 0.040000 mg/l	0.354000 lb/d 0.089000 mg/l		1/year	grab
Mn	7.350000 lb/d 1.000000 mg/l	32.860000 lb/d 2.000000 mg/l		1/week	composite
Naphthalene	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 mg/l		1/year	grab
NH3-N	N/A N/A	N/A N/A	See below	5/week	composite
Ni (T)	6.700000 lb/d 1.000000 mg/l	15.800000 lb/d 2.000000 mg/l		1/year	composite
Nitrobenzene	0.107000 lb/d 0.027000 mg/l	0.271000 lb/d 0.068000 mg/l		1/year	grab
Pb (T)	1.300000 lb/d 0.200000 mg/l	2.700000 lb/d 0.400000 mg/l		1/year	composite
pH	N/A N/A	N/A Report	Between 6.0 and 10.0 su	7/week	grab
Phenanthrene	0.088000 lb/d 0.022000 mg/l	0.235000 lb/d 0.059000 mg/l		1/year	grab
Phenol	0.060000 lb/d 0.015000 mg/l	0.103000 lb/d 0.026000 mg/l		1/year	grab
Pyrene	0.099000 lb/d 0.025000 mg/l	0.266000 lb/d 0.067000 mg/l		1/year	grab
Tetrachloroethylene	0.088000 lb/d 0.022000 mg/l	0.223000 lb/d 0.056000 mg/l		1/year	grab
TOC	N/A Report mg/l	N/A N/A		7/week	composite
Toluene	0.103000 lb/d 0.026000 mg/l	0.318000 lb/d 0.080000 mg/l		1/year	grab
Trichloroethylene	0.084000 lb/d 0.021000 mg/l	0.215000 lb/d 0.054000 mg/l		1/year	grab
TSS	184.000000 lb/d 25.000000 mg/l	821.500000 lb/d 50.000000 mg/l		7/week	composite

Facility Name: Amoco Chemical Co. - Joliet | **Permit Number:** IL0001643

Facility Description: Polystyrene manufacturer | **SIC Code:** 2821

Vinyl chloride	0.414000 lb/d 0.104000 mg/l	1.066000 lb/d 0.268000 mg/l		1/year	grab
Zn (T)	4.200000 lb/d 1.000000 mg/l	10.400000 lb/d 2.000000 mg/l		1/year	composite

Limitations/Monitoring Basis:
The effluent NH3-N concentration limit is based on the Illinois Pollution Control Board Rules and Regulations, Chapter 1, Subtitle C, Section 302.407. Because they are more stringent than Federal limits, State promulgated effluent standard in Subpart 304.120 were used as the basis for BOD5 and TSS limits. State effluent standards in Subpart 304.124 were used for Mn, Cr (T), Cu, CN, Pb, Ni, and Zn. Subpart 304.125 was used for pH. The remaining parameters are ELG-limited based on 40 CFR Part 414.91. Outfall 001 discharge is limited to 1 acute toxicity unit (TUa) on a daily maximum basis unless the permittee can demonstrate that a higher toxicity limit is warranted. The 1 TUa limit and monthly monitoring requirement becomes effective 4 years from the effective date of the permit. WET testing is required following an EPA guidance document and using two species: a 48-hour acute Ceriodaphnia bioassay and a 96-hour acute fathead minnow bioassay. Any test resulting in greater than 50 % mortality to the test organism (1 TUa) will be considered a violation of the WET limit.

Outfall: 002 | **Receiving Water:** Des Plaines River | **Treatment:** None.

Amount/Components:
Unspecified amount of stormwater.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
CBOD5	N/A 20.000000 mg/l	N/A 40.000000 mg/l		1/week	composite
Flow	N/A Report mgd	N/A N/A		1/week	single reading
pH	N/A Report	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
TOC	N/A N/A	N/A Report mg/l		1/week	composite

Limitations/Monitoring Basis:
State effluent standards in Subparts 304.125 and 304.120 were used for pH and CBOD5, respectively. The basis for monitoring for TOC was not provided.

Outfall: 004 | **Receiving Water:** Des Plaines River | **Treatment:** Unspecified.

Amount/Components:
Unspecified amount of treated sanitary wastewater.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
CBOD5	5.210000 lb/d 25.000000 mg/l	10.430000 lb/d 50.000000 mg/l		1/week	composite
Flow	N/A Report mgd	N/A N/A		continuous	not given
pH	N/A Report	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
TSS	6.260000 lb/d 30.000000 mg/l	12.510000 lb/d 60.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
State effluent standards in Subpart 304.120 were used for CBOD5 and TSS. Subparts 304.125 was used for pH.

Special Conditions Basis:
The permit includes a reopener clause based on the promulgation of applicable effluent standards or limitations or WQSs that are more stringent than the existing permit limits. Because toxicity has been demonstrated in Amoco's discharge, a plan for a TRE for Outfall 001 is required within 90 days of the effective date of the permit. After approval, the TRE is to be completed immediately, incorporating elements described in the permit, and a report of

Facility Name: Amoco Chemical Co. - Joliet		Permit Number: IL0001643
Facility Description: Polystyrene manufacturer		SIC Code: 2821
the findings is to be submitted to the agency within 9 months. If, after the TRE is provided, the toxicity in the effluent remains greater than 1 TUa, a mixing zone study and a biological survey will be required. For NPDES permit renewal, the applicant must submit test results of aquatic toxicity screening (chronic and acute WET testing) and chemical-specific testing following specified EPA methods.		
Effective Date: 04/17/92	Expiration Date: 02/01/97	Abstract Date: 06/08/93

Facility Name: 3M-Cordova | Permit Number: IL0003140

Facility Description: Organic chemicals, plastics, and synthetic fibers manufacturer | SIC Code: 2899

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	√	-	-	-	√

Abstract Information:
Complete: 001A, 001, and 001B. Outfall 001 represents interim limits, outfall 001B was created for abstract purposes and represents final limits.

Outfall: 001 | Receiving Water: Mississippi River | Treatment: Sed+EQ+AerD+AS

Amount/Components:
Approximately 9.83 mgd of treated process water.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/month	not given
BOD5	1151.000000 lb/d 20.000000 mg/l	2302.000000 lb/d 40.000000 mg/l		2/week	composite
CN	N/A Report mg/l	N/A Report mg/l		1/month	composite
FC	N/A N/A	N/A 400.000000	Units:#/100 ml	1/month	grab
Fe (T)	115.100000 lb/d 2.000000 mg/l	230.200000 lb/d 4.000000 mg/l		1/month	composite
Fl	864.000000 lb/d 15.000000 mg/l	1728.000000 lb/d 30.000000 mg/l	Fluoride	2/week	composite
Flow	N/A Report mgd	N/A N/A		continuous	not given
Hg	N/A Report mg/l	N/A Report mg/l		1/month	composite
Mn	N/A Report mg/l	N/A Report mg/l		1/month	composite
NH3-N	1673.000000 lb/d 146.000000 mg/l	17532.000000 lb/d 153.000000 mg/l		2/week	composite
O&G	864.000000 lb/d 15.000000 mg/l	1728.000000 lb/d 30.000000 mg/l		1/month	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	2/week	grab
Temp.	N/A N/A	N/A N/A	See below	2/week	single reading
TSS	1439.000000 lb/d 25.000000 mg/l	2878.000000 lb/d 50.000000 mg/l		2/week	composite

Limitations/Monitoring Basis:
State WQ-based limits from Subpart 304 are used for BOD5, TSS, pH, FC, fluoride, Fe, and O&G. Monitoring only limits are continued from the previous permit and include CN, Hg, and Mn because they are not expected to be at levels of concern. State WQ-based limits from Subpart 302 are used for temperature and NH3-N. Final effluent NH3-N concentration and load limits are based on an approved mixing zone consisting of 25:1 dilution and encompassing an area to 1000 feet below Outfall 001. Based on State WQSs, the wastewater discharged must not cause the receiving stream temperature to increase more than 5 degrees Farenheit. Receiving water temperature maximum monthly limits are provided.

Facility Name: 3M-Cordova | Permit Number: IL0003140

Facility Description: Organic chemicals, plastics, and synthetic fibers manufacturer | SIC Code: 2899

Outfall: 001A | Receiving Water: Internal to Outfall 001 | Treatment: Sed+EQ+AerD+AS

Amount/Components:
Approximately 1.16 mgd of treated process water.

	Limitations			Monitoring Requirements	
Parameter	daily Average	Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		continuous	not given

Limitations/Monitoring Basis:
State WQ-based limits are used for flow.

Outfall: 001B | Receiving Water: Mississippi River | Treatment: Sed+EQ+AerD+AS

Amount/Components:
Approximately 9.83 mgd of treated process water.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	1151.000000 lb/d 20.000000 mg/l	2302.000000 lb/d 40.000000 mg/l		2/week	composite
CN	N/A Report mg/l	N/A Report mg/l		1/month	composite
FC	N/A N/A	N/A 400.000000	Units:#/100 ml	1/month	grab
Fe (T)	115.100000 lb/d 2.000000 mg/l	230.200000 lb/d 4.000000 mg/l		2/week	composite
Fl	864.000000 lb/d 15.000000 mg/l	1728.000000 lb/d 30.000000 mg/l		2/week	composite
Flow	N/A Report mgd	N/A N/A		continuous	not given
Hg	N/A Report mg/l	N/A Report mg/l		1/month	composite
Mn	N/A Report mg/l	N/A Report mg/l		1/month	composite
NH3-N	4583.000000 lb/d 40.000000 mg/l	6875.000000 lb/d 60.000000 mg/l		2/week	composite
O&G	864.000000 lb/d 15.000000 mg/l	1728.000000 lb/d 30.000000 mg/l		1/month	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	2/week	grab
Temp.	N/A N/A	N/A N/A		2/week	single reading
TSS	1439.000000 lb/d 25.000000 mg/l	2878.000000 lb/d 50.000000 mg/l		2/week	composite

Limitations/Monitoring Basis:
See limitations/monitoring basis for Outfall 001.

Special Conditions Basis:
The permit contains a reopener clause based on the promulgation of applicable standards or regulations containing more stringent limitations. A compliance schedule for meeting the NH3-N limitations is provided based on aconcern for mussels and known problems with aquatic toxicity. Acute toxicity testing on Outfall 001 effluent must be performed monthly within 30 days of achieving final effluent limits for NH3-N, as provided in the compliance schedule. Toxicity testing is required following EPA guidance using 2 species, and 5 dilutions as well as 100% effluent. For fish, testing must be conducted over a 96-hour period, while a 48-hour period must be used for

Facility Name: 3M-Cordova	Permit Number: IL0003140
Facility Description: Organic chemicals, plastics, and synthetic fibers manufacturer	SIC Code: 2899

invertebrates. These dilutions are to be adjusted as the effluent toxicity becomes known to achieve at least 2 concentrations higher and lower than the expected LC50. While the permit does not require a TIE or TRE,the permit contains a special condition allowing a permit modification to require these. This special condition operates as a reopener, and also allows for permit modification to include establishment of numerical limitations based on toxicity testing results. Chemical specific testing on the Outfall 001A effluent must be performed monthly for 113 priority pollutants, per 40 CFR Part 136 Appendix A, Methods 624 and 625, and for non-priority pollutants using analytical methods described in the permit. Sample results for the following parameters must be reported to the permitting authority: Ba, CN, Cu, Fl, fats, O&G, Fe, Pb, Mn, Hg, Ni, Zn, and Co. Cobalt was added because it has been found in the wastewater treatment plant sludge. The permit contains a reopener allowing for reduction or discontinuance of these monitoring and reporting requirements. A mussel survey and habitat study must be performed after 8/1/95 but before the expiration date of the permit, and submitted with the permit renewal application.

Effective Date: 10/31/91	Expiration Date: 06/01/96	Abstract Date: 06/07/93

Facility Name: Marathon Oil - Robinson | Permit Number: IL0004073

Facility Description: Petroleum refinery that manufactures various petroleum products | SIC Code: 2911

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	√	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	√	√	√	√

Abstract Information:
Complete; Outfalls 001, 002, and 003

Outfall: 001 | Receiving Water: Unnamed trib. to Sugar Creek | Treatment: API, DAF, AS, Fil

Amount/Components:
Approximately 1.87 mgd (average) of petroleum manufacturing wastewater from wastewater treatment plant.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	241.000000 lb/d 10.000000 mg/l	612.000000 lb/d 20.000000 mg/l	See below	2/week	24hr composite
Chronic WET	N/A N/A	N/A Report	See below	1/month	not provided
Cl	N/A N/A	21425.000000 lb/d 700.000000 mg/l		2/week	24hr composite
COD	9204.000000 lb/d N/A	17738.000000 lb/d N/A	See below	2/week	24hr composite
Cr (T)	10.400000 lb/d 1.000000 mg/l	30.300000 lb/d 2.000000 mg/l	See below	2/week	24hr composite
Cr+6	0.340000 lb/d 0.011000 mg/l	0.490000 lb/d 0.016000 mg/l	See below	2/week	24hr composite
Flow	N/A Report mgd	N/A Report mgd		1/day	continuous
NH3-N	61.200000 lb/d 2.000000 mg/l	122.400000 lb/d 4.000000 mg/l	See below	2/week	24hr composite
O&G	361.000000 lb/d 15.000000 mg/l	763.000000 lb/d 30.000000 mg/l	See below	1/week	24hr composite
pH	Report N/A	Report N/A	Between 6.0 su and 9.0 su	2/week	grab
Phenols	N/A N/A	3.100000 lb/d 0.100000 mg/l	See below	2/week	24hr composite
S	7.000000 lb/d N/A	15.600000 lb/d N/A		2/week	24hr composite
TDS	N/A N/A	91823.000000 lb/d 3000.000000 mg/l		2/week	24hr composite
Temp.	Report N/A	Report N/A	See below	2/week	grab
TSS	289.000000 lb/d 12.000000 mg/l	735.000000 lb/d 24.000000 mg/l	See below	2/week	24hr composite

Limitations/Monitoring Basis:
Existing permit limits were used for BOD5, TSS, O&G (fats, oil and grease), and Cr (T). State WQS were used to establish limits for chloride, TDS, NH3-N, phenol, and Cr+6. ELG-based limits using 40 CFR Part 419 Subpart B were used for COD and S. Chronic toxicity testing is required within 60 days of the effective date of the permit. These limits were based on zero dilution. EPA and State specifications for chronic WET testing are to be followed. The testing must consist of 7 day larval survival and growth tests performed on the fathead minnow, using 100% effluent. Chronic toxicity testing limits are based on previous testing results. The limit of a NOAEL of not less than 100% effluent becomes effective 9/30/95. The maximum temperature increase must not exceed 5 degrees Farenheit. Wastewater discharged from the facility must not alone or in combination with other sources cause the receiving stream to violate the thermal limitations at the edge of the mixing zone defined by Illinois Administration Code,

Facility Name: Marathon Oil - Robinson | Permit Number: IL0004073

Facility Description: Petroleum refinery that manufactures various petroleum products | SIC Code: 2911

Title 35, Chapter 1, Subtitle C. Based on State WQSs, the wastewater discharged must cause the receiving stream temperature to increase more than 5 degrees Farenheit. Receiving water temperature maximum monthly limits are provided. The limit for oil and grease includes fats. Each O&G sample comprising the 24hr composite is to be analyzed separately and an arithmetic mean calculated. Individual O&G samples forming the composite are limited to 75 mg/l. Taken from the existing permit, a storm water credit is allowed in lb/1000 gallons of storm water for COD, O&G, BOD5, TSS, Cr (T), Cr+6, and phenolic compounds. However, the permittee is prohibited from discharging more than 918 lb of fats, O&G (time period is not specified). The NH3-N limit shown applies April through October. The November through March limits are 70.4 mg/l monthly average and 140.8 mg/l daily maximum.

Outfall: 002 | Receiving Water: Unnamed trib. to Sugar Creek | Treatment: none

Amount/Components:
Unspecified amount of contaminated storm water.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Benzene	N/A N/A	N/A Report mg/l	See below	2/year	24 hr composite
BOD5	Report lb/d 10.000000 mg/l	Report lb/d 20.000000 mg/l	See below	1/day	grab
COD	Report lb/d N/A	Report lb/d N/A	See below	1/day	grab
Cr (T)	Report lb/d 1.000000 mg/l	Report lb/d 2.000000 mg/l	See below	1/day	grab
Cr+6	Report lb/d 0.011000 mg/l	Report lb/d 0.016000 mg/l	See below	1/day	grab
Ethylbenzene	N/A N/A	N/A Report mg/l	See below	2/year	24hr composite
Flow	N/A Report mgd	N/A Report mgd		continuous	estimate
NH3-N	Report N/A	Report N/A	Units not provided	1/day	grab
O&G	Report lb/d 15.000000 mg/l	Report lb/d 30.000000 mg/l	See below	1/day	grab
PAHs	N/A N/A	N/A Report mg/l	See below	2/year	24hr composite
pH	N/A Report	N/A Report	Between 6.0 su and 9 .0 su	1/day	grab
Phenols	Report lb/d N/A	Report lb/d 0.100000 mg/l	See below	1/day	grab
Toluene	N/A N/A	N/A Report mg/l	See below	2/year	24hr composite
TSS	Report lb/d 12.000000 mg/l	Report lb/d 24.000000 mg/l	See below	1/day	grab

Limitations/Monitoring Basis:
See limitations/monitoring basis discussion for Outfall 001. Any discharge from Outfall 002 is treated as bypass. See stormwater credit allowances described under Outfall 001. Samples to be tested for PAHs, benzene, toluene, and ethylbenzene are to be taken from 2 distinct precipitation events if 2 such discharges occur during a calendar year. Acceptable detection limits are provided in the permit. The basis for this testing was not discussed.

Facility Name: Marathon Oil - Robinson | Permit Number: IL0004073

Facility Description: Petroleum refinery that manufactures various petroleum products | SIC Code: 2911

Outfall: 003 | Receiving Water: Unnamed trib. to Sugar Creek | Treatment: none

Amount/Components:
Unspecified amount of uncontaminated storm water.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Chloride	N/A N/A	N/A 550.000000 mg/l		2/year	24hr composite
COD	N/A Report mg/l	N/A Report mg/l		2/year	24hr composite
Cr (T)	N/A 1.000000 mg/l	N/A 2.000000 mg/l		1/day	24hr composite
Cr+6	N/A 0.011000 mg/l	N/A 0.016000 mg/l		1/day	24hr composite
Flow	N/A Report mgd	N/A Report mgd		continuous	estimate
NH3-N	N/A 2.000000 mg/l	N/A 4.000000 mg/l	April-October	1/day	24hr composite
O&G	N/A 15.000000 mg/l	N/A 30.000000 mg/l		1/day	math. composite
pH	N/A Report	N/A Report	Between 6.0 su and 9.0 su	1/day	grab
Phenols	N/A N/A	N/A 0.100000 mg/l		1/day	24hr composite
S	N/A Report mg/l	N/A Report mg/l		2/year	24hr composite
TDS	N/A N/A	N/A 2000.000000 mg/l		2/year	24hr composite
TOC	N/A N/A	N/A 110.000000 mg/l		1/day	24hr composite
TSS	N/A 35.000000 mg/l	N/A 70.000000 mg/l		2/year	24hr comp

Limitations/Monitoring Basis:
See limitations/monitoring basis discussion for Outfall 001 except no ELGs. Also, TOC based on BPJ using ELG 40 CFR Subpart 419 for discharge of contaminated storm water without treatment. TSS limits taken from 2/3/89 Industrial Unit memorandum on TSS limits for stormwater discharges. The NH3-N limit applies April through October. The November through March NH3-N limits are 2.3 mg/l monthly average and 4.6 daily maximum.

Special Conditions Basis:
A compliance schedule is provided for achieving the WET effluent limit. A plan for conducting a TRE must be submitted to the permitting authority by 3/1/93. The plan is to be implemented and a report submitted by 12/1/93. Actions are to be taken based on the findings of the report; the effluent limit becomes effective on 9/30/95.

Effective Date: 10/30/92 | Expiration Date: 10/30/97 | Abstract Date: 04/26/93

Facility Name: General Electric - Mt. Vernon | **Permit Number:** IN0002101

Facility Description: Organic chemical and synthetic manufacturer | **SIC Code:** 2869

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	√	-	√	√

Abstract Information:
Complete: Outfalls 001, 002, 002A (created for abstract purposes), 003, 004, and 005. 002 includes interim limits, 002A includes limits using a diffuser.

Outfall: 001 | **Receiving Water:** Ohio River | **Treatment:** Fil, GAC

Amount/Components:
Only used for emergencies to discharge a process brine stream during failure of Brine Recovery Plant. Estimated flow would be 1.0 mgd.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chloride	Report lb/d N/A	Report lb/d N/A		1/day	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	24 hr total
pH	N/A Report su	N/A Report su		1/day	grab
Phenols	Report lb/d N/A	Report lb/d N/A		1/day	grab
TDS	Report lb/d N/A	Report lb/d N/A		1/day	grab
TSS	Report lb/d N/A	Report lb/d N/A		1/day	grab

Limitations/Monitoring Basis:
Monitoring only is required for all parameters. Discharge from 001 is only authorized in the event of failure of the Brine Recovery Plant.

Outfall: 002 | **Receiving Water:** Ohio River | **Treatment:** AS, Neut, Scr, Fil

Amount/Components:
Approximately 6.60 mgd of discharge from wastewater treatment plant including boiler blowdown, stormwater, and process and sanitary wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
1,1,2-Trichloroethane	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
1,1-Dichloroethane	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	grab
1,1-Dichloroethylene	0.850000 lb/d N/A	1.330000 lb/d N/A		1/year	grab
1,2,4-Trichlorobenzene	3.610000 lb/d N/A	7.430000 lb/d N/A		1/year	24hr composite
1,2-Dichlorobenzene	4.080000 lb/d N/A	8.650000 lb/d N/A		1/month	grab

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1,2-Dichloroethane	3.610000 lb/d N/A	11.190000 lb/d N/A		1/year	grab
1,2-Dichloropropane	8.120000 lb/d N/A	12.200000 lb/d N/A		1/year	grab
1,2-Trans-Dichloroethylene	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
1,3-Cis-Dichloropropylene	1.540000 lb/d N/A	2.330000 lb/d N/A		1/year	grab
1,3-Dichlorobenzene	1.640000 lb/d N/A	2.330000 lb/d N/A		1/year	grab
1,4-Dichlorobenzene	0.800000 lb/d N/A	1.490000 lb/d N/A		1/year	grab
2,2-Bis (4-hydroxy-phenyl) pro	11.800000 lb/d 200.400000 ug/l	27.450000 lb/d 466.200000 ug/l		1/month	24hr composite
2,4-Dichlorophenol	2.070000 lb/d N/A	5.940000 lb/d N/A		1/month	24hr composite
2,4-Dimethylphenol	0.960000 lb/d N/A	1.910000 lb/d N/A		1/year	24hr composite
2,4-Dinitrophenol	1.570000 lb/d 26.600000 ug/l	3.650000 lb/d 62.000000 ug/l		1/month	24hr composite
2,4-Dinitrotoluene	5.990000 lb/d N/A	15.120000 lb/d N/A		1/year	24hr composite
2,6-Dinitrotoluene	13.530000 lb/d N/A	34.000000 lb/d N/A		1/year	24hr composite
2-Chlorophenol	1.640000 lb/d N/A	5.200000 lb/d N/A		1/month	grab
2-Nitrophenol	2.180000 lb/d N/A	3.660000 lb/d N/A		1/month	24hr composite
3,4-Benzofluoranthene	1.220000 lb/d N/A	3.240000 lb/d N/A		1/year	24hr composite
4,6-Dinitro-o-cresol	4.140000 lb/d N/A	14.690000 lb/d N/A		1/month	24hr composite
4-Nitrophenol	3.820000 lb/d N/A	6.580000 lb/d N/A		1/month	24hr composite
Acenaphthene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Acenaphthylene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Acrylonitrile	5.090000 lb/d N/A	12.840000 lb/d N/A		1/year	grab
Acute WET	N/A N/A	N/A Report	See below	2/year	24hr composite
Ag	0.180000 lb/d 3.000000 ug/l	0.410000 lb/d 7.000000 ug/l		1/month	24hr composite
Anthracene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Benzene	1.960000 lb/d N/A	7.210000 lb/d N/A		1/year	grab
Benzo (a) anthracene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite

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Benzo (d) pyrene	1.220000 lb/d N/A	3.240000 lb/d N/A		1/year	24hr composite
Benzo (k) fluoranthene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Bis (2-chlorisopropyl) ether	15.960000 lb/d N/A	40.150000 lb/d N/A		1/year	grab
Bis (2-ethylhexyl) phthalate	5.460000 lb/d N/A	14.800000 lb/d N/A		1/year	24hr composite
BOD5	1494.000000 lb/d N/A	3938.000000 lb/d N/A		1/day	24hr composite
Carbon tetrachloride	0.960000 lb/d N/A	2.020000 lb/d N/A		1/month	grab
Chlorobenzene	0.800000 lb/d N/A	1.490000 lb/d N/A		1/year	grab
Chloroethane	5.520000 lb/d N/A	14.220000 lb/d N/A		1/year	grab
Chloroform	1.110000 lb/d N/A	2.440000 lb/d N/A		1/month	grab
Chrysene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
CN	1.110000 lb/d 18.900000 ug/l	2.590000 lb/d 44.000000 ug/l		1/month	24hr composite
COD	8714.000000 lb/d N/A	26143.000000 lb/d N/A		1/day	24hr composite
Cr (T)	13.520000 lb/d N/A	33.730000 lb/d N/A		1/month	24hr composite
Cu (TR)	1.210000 lb/d 20.600000 ug/l	2.830000 lb/d 48.000000 ug/l		1/month	24hr composite
Di-n-butyl phthalate	1.430000 lb/d N/A	3.020000 lb/d N/A		1/year	24hr composite
Diethyl phthalate	4.300000 lb/d N/A	10.770000 lb/d N/A		1/year	24hr composite
Dimethyl phthalate	1.010000 lb/d N/A	2.490000 lb/d N/A		1/year	24hr composite
Ethylbenzene	1.700000 lb/d N/A	5.730000 lb/d N/A		1/year	grab
FC	N/A 200.000000 No.	N/A 400.000000 No.	Units: No./100 ml	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	24hr total
Fluoranthene	1.330000 lb/d N/A	3.610000 lb/d N/A		1/year	24hr composite
Fluorene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Hexachlorobenzene	0.310000 lb/d 5.200000 ug/l	0.710000 lb/d 12.000000 ug/l		1/year	24hr composite
Hexachlorobutadiene	1.060000 lb/d N/A	2.600000 lb/d N/A		1/year	grab
Hexachloroethane	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab

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Methyl chloride	4.560000 lb/d N/A	10.080000 lb/d N/A		1/year	grab
Methylene chloride	2.120000 lb/d N/A	4.720000 lb/d N/A		1/month	grab
Naphthalene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Ni (T)	20.580000 lb/d N/A	48.460000 lb/d N/A		1/month	24hr composite
Nitro-n-methyl phthalimide	Report lb/d N/A	Report lb/d N/A		1/month	24hr composite
Nitrobenzene	1.430000 lb/d N/A	3.610000 lb/d N/A		1/year	24hr composite
Pb (T)	N/A N/A	0.710000 lb/d 12.000000 ug/l		1/year	24hr composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	continuous	record
Phenanthrene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Phenol	0.800000 lb/d N/A	1.380000 lb/d N/A		1/month	24hr composite
Phenols	41.200000 lb/d N/A	82.400000 lb/d N/A		1/day	24hr composite
Pyrene	1.330000 lb/d N/A	3.550000 lb/d N/A		1/year	24hr composite
Temp.	N/A Report C	N/A Report C		1/day	grab
Tetrachloroethylene	1.170000 lb/d N/A	2.970000 lb/d N/A		1/year	grab
Tetrahydrofuran	Report lb/d N/A	Report lb/d N/A		1/month	24hr composite
TOC	2750.000000 lb/d N/A	8249.000000 lb/d N/A		1/day	24hr composite
Toluene	1.380000 lb/d N/A	4.240000 lb/d N/A		1/month	grab
TRC	N/A 0.020000 mg/l	N/A 0.040000 mg/l		1/day	grab
Trichloroethylene	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
TSS	2358.000000 N/A lb/d	7576.000000 lb/d N/A		1/day	24hr composite
Vinyl chloride	5.520000 lb/d N/A	14.220000 lb/d N/A		1/year	grab
Zn (TR)	6.070000 lb/d N/A	12.750000 lb/d N/A		1/month	24hr composite

Limitations/Monitoring Basis:

All organic limits are ELG-based per 40 CFR, Part 414, OCPSF, except hexachlorobenzene and 2,4-dinitrophenol. Limitations for hexachlorobenzene, 2,4-dinitrophenol, Cu, CN, and Ag are WQ-based. When a diffuser is used, the 2,4-dinitrophenol limitation is ELG-based. pH, TSS, BOD5, Cr (T), and Ni limitations are ELG-based per 40 CFR Part 414, OCPSF. Limitations for total phenols are BPJ-based and are the same as in the previous permit. Zn, tetrahydrofuran, and nitro-N-methyl phthalimide limitations are based on the previous permit. Temperature and E-coli monitoring limitations are WQ-based. The maximum limit for Pb is set equal to the 50th percentile of Pb in the receiving stream. Cu, Zn, and Ag shall be measured and reported as "total recoverable" until a test method is approved which measures acid-soluble metal. According to 40 CFR, Part 136.3, Table II, the maximum holding time for CN is 24 hours when sulfide is present and 14 days when sulfide is absent. CN, therefore, shall be monitored by

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collecting a grab sample and analyzing it within 24 hours. If it can be demonstrated that the wastewater contains no sulfide, a composite sample may be collected and analyzed within 14 days. E. Coli limitations and monitoring requirements apply annually from Apr. 1 through Oct. 31, except when: (a) fecal coliform may be reported instead of E. Coli for the first three months. After 3 months, E. Coli must be used. The monthly average limit for E. Coli is 125/100 ml and the daily max. is 235/100 ml; (b) a variance may be requested for fecal coliform monitoring from Nov. 1 through Mar. 31; (c) a variance from the lead limitation may be requested on the basis that naturally occurring Pb concentrations in the receiving waters prevent the attainment of the standard. The limits for Ag (TR) and 2,2-Bis(4-hydroxy-phenyl) propane are provided with a compliance schedule for achieving these limits. In the interim, the permittee reports the measurements. Acute WET testing is to be initiated within 90 days as follows: For the first 6 months, testing is to be conducted 1/month, a 96hr definitive static renewal LC10 bioassay shall be conducted using a fathead minnow. A 48hr definitive static removal LC10 bioassy shall be conducted using Ceriodaphnia or Daphnia species. A definitive static renewal LC10 bioassy shall be conducted using a species representative of the receiving stream's aquatic community from the list in Table 1 of EPA/600/4-85/013. Chemical sampling must accompany each water sample taken for bioassay analysis. If an effluent diffuser is installed, testing should include multiple dilutions using receiving stream water from upstream of Outfall 002.

Outfall: 002A | **Receiving Water:** Ohio River | **Treatment:** AS, Neut, Scr, Fil

Amount/Components:
Approximately 6.60 mgd of discharge from wastewater treatment plant including boiler blowdown, stormwater, and process and sanitary wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
1,1,2-Trichloroethane	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
1,1-Dichloroethane	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	grab
1,1-Dichloroethylene	0.850000 lb/d N/A	1.330000 lb/d N/A		1/year	grab
1,2,4-Trichlorobenzene	3.610000 lb/d N/A	7.430000 lb/d N/A		1/year	24hr composite
1,2-Dichlorobenzene	4.080000 lb/d N/A	8.650000 lb/d N/A		1/month	grab
1,2-Dichloroethane	3.610000 lb/d N/A	11.190000 lb/d N/A		1/year	grab
1,2-Dichloropropane	8.120000 lb/d N/A	12.200000 lb/d N/A		1/year	grab
1,2-Trans-Dichloroethylene	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
1,3-Cis-Dichloropropylene	1.540000 lb/d N/A	2.330000 lb/d N/A		1/year	grab
1,3-Dichlorobenzene	1.640000 lb/d N/A	2.330000 lb/d N/A		1/year	grab
1,4-Dichlorobenzene	0.800000 lb/d N/A	1.490000 lb/d N/A		1/year	grab
2,2-Bis (4-hydroxy-phenyl) pro	80.820000 lb/d 1372.600000 ug/l	188.030000 lb/d 3193.500000 ug/l		1/month	24hr composite
2,4-Dichlorophenol	2.070000 lb/d N/A	5.940000 lb/d N/A		1/month	24hr composite
2,4-Dimethylphenol	0.960000 lb/d N/A	1.910000 lb/d N/A		1/year	24hr composite
2,4-Dinitrophenol	3.770000 lb/d N/A ug/l	6.520000 lb/d N/A ug/l		1/month	24hr composite

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2,4-Dinitrotoluene	5.990000 lb/d N/A	15.120000 lb/d N/A		1/year	24hr composite
2,6-Dinitrotoluene	13.530000 lb/d N/A	34.000000 lb/d N/A		1/year	24hr composite
2-Chlorophenol	1.640000 lb/d N/A	5.200000 lb/d N/A		1/month	grab
2-Nitrophenol	2.180000 lb/d N/A	3.660000 lb/d N/A		1/month	24hr composite
3,4-Benzofluoranthene	1.220000 lb/d N/A	3.240000 lb/d N/A		1/year	24hr composite
4,6-Dinitro-o-cresol	4.140000 lb/d N/A	14.690000 lb/d N/A		1/month	24hr composite
4-Nitrophenol	3.820000 lb/d N/A	6.580000 lb/d N/A		1/month	24hr composite
Acenaphthene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Acenaphthylene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Acrylonitrile	5.090000 lb/d N/A	12.840000 lb/d N/A		1/year	grab
Acute WET	N/A N/A	N/A Report	See below	2/year	24hr composite
Ag	1.160000 lb/d 19.700000 ug/l	2.700000 lb/d 45.800000 ug/l		1/month	24hr composite
Anthracene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Benzene	1.960000 lb/d N/A	7.210000 lb/d N/A		1/year	grab
Benzo (a) anthracene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Benzo (k) fluoranthane	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Bis (2-chlorisopropyl) ether	15.960000 lb/d N/A	40.150000 lb/d N/A		1/year	grab
Bis (2-ethylhexyl) phthalate	5.460000 lb/d N/A	14.800000 lb/d N/A		1/year	24hr composite
BOD5	1494.000000 lb/d N/A	3938.000000 lb/d N/A		1/day	24hr composite
Carbon tetrachloride	0.960000 lb/d N/A	2.020000 lb/d N/A		1/month	grab
Chlorobenzene	0.800000 lb/d N/A	1.490000 lb/d N/A		1/year	grab
Chloroethane	5.520000 lb/d N/A	14.220000 lb/d N/A		1/year	grab
Chloroform	1.110000 lb/d N/A	2.440000 lb/d N/A		1/month	grab
Chrysene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
CN	5.110000 lb/d N/A ug/l	14.600000 lb/d N/A ug/l		1/month	24hr composite

Facility Name: General Electric - Mt. Vernon | Permit Number: IN0002101

Facility Description: Organic chemical and synthetic manufacturer | SIC Code: 2869

COD	8714.000000 lb/d N/A	26143.000000 lb/d N/A		1/day	24hr composite
Cr (T)	13.520000 lb/d N/A	33.730000 lb/d N/A		1/month	24hr composite
Cu (TR)	4.250000 lb/d N/A ug/l	9.110000 lb/d N/A ug/l		1/month	24hr composite
Di-n-butyl phthalate	1.430000 lb/d N/A	3.020000 lb/d N/A		1/year	24hr composite
Diethyl phthalate	4.300000 lb/d N/A	10.770000 lb/d N/A		1/year	24hr composite
Dimethyl phthalate	1.010000 lb/d N/A	2.490000 lb/d N/A		1/year	24hr composite
Ethylbenzene	1.700000 lb/d N/A	5.730000 lb/d N/A		1/year	grab
FC	N/A 200.000000 No.	N/A 400.000000 No.		1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	24hr total
Fluoranthene	1.330000 lb/d N/A	3.610000 lb/d N/A		1/year	24hr composite
Fluorene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Hexachlorobenzene	0.550000 lb/d 9.300000 ug/l	1.280000 lb/d 21.700000 ug/l		1/year	24hr composite
Hexachlorobutadiene	1.060000 lb/d N/A	2.600000 lb/d N/A		1/year	grab
Hexachloroethane	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
Methyl chloride	4.560000 lb/d N/A	10.080000 lb/d N/A		1/year	grab
Methylene chloride	2.120000 lb/d N/A	4.720000 lb/d N/A		1/month	grab
Naphthalene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Ni (T)	20.580000 lb/d N/A	48.460000 lb/d N/A		1/month	24hr composite
Nitro-n-methyl phthalimide	Report lb/d N/A	Report lb/d N/A		1/month	24hr composite
Nitrobenzene	1.430000 lb/d N/A	3.610000 lb/d N/A		1/year	24hr composite
Pb (T)	N/A N/A	0.710000 lb/d 12.000000 ug/l		1/year	24hr composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	continuous	record
Phenanthrene	1.170000 lb/d N/A	3.130000 lb/d N/A		1/year	24hr composite
Phenol	0.800000 lb/d N/A	1.380000 lb/d N/A		1/month	24hr composite
Pyrene	1.330000 lb/d N/A	3.550000 lb/d N/A		1/year	24hr composite

Facility Name: General Electric - Mt. Vernon | Permit Number: IN0002101

Facility Description: Organic chemical and synthetic manufacturer | SIC Code: 2869

Temp.	N/A Report C	N/A Report C		1/day	grab
Tetrachloroethylene	1.170000 lb/d N/A	2.970000 lb/d N/A		1/year	grab
TOC	2750.000000 lb/d N/A	8349.000000 lb/d N/A		1/day	24hr composite
Toluene	1.380000 lb/d N/A	4.240000 lb/d N/A		1/month	grab
TRC	N/A 0.020000 mg/l	N/A 0.040000 mg/l		1/day	grab
Trichloroethylene	1.110000 lb/d N/A	2.860000 lb/d N/A		1/year	grab
TSS	N/A 2358.000000 lb/d	7576.000000 lb/d N/A		1/day	24hr composite
Vinyl chloride	5.520000 lb/d N/A	14.220000 lb/d N/A		1/year	grab
Zn (TR)	6.070000 lb/d N/A	12.750000 lb/d N/A		1/month	24hr composite

Limitations/Monitoring Basis:
All organic limits are ELG-based per 40 CFR, Part 414, OCPSF, except hexachlorobenzene and 2,4-dinitrophenol. Limitations for hexachlorobenzene, 2,4-dinitrophenol, Cu, CN, and Ag are WQ-based. When a diffuser is used, the 2,4-dinitrophenol limitation is ELG-based. pH, TSS, BOD5, Cr (T), and Ni limitations are ELG-based per 40 CFR Part 414, OCPSF. Limitations for total phenols are BPJ-based and are the same as in the previous permit. Zn, bisphenol-A, tetrahydrofuran, and nitro-N-methyl phthalimide limitations are based on the previous permit. Temperature and E-coli monitoring limitations are WQ-based. The maximum limit for Pb is set equal to the 50thpercentile of Pb in the receiving stream. Cu, An, and Ag shall be measured and reported as "total recoverable" until a test method is approved which measures acid-soluble metal. According to 40 CFR, Part 136.3, Table II,the maximum holding time for CN is 24 hours when sulfide is present and 14 days when sulfide is absent. CN, therefore, shall be monitored by collecting a grab sample and analyzing it within 24 hours. If it can be demonstrated that the wastewater contains no sulfide, a composite sample may be collected and analyzed within 14 days. E. Coli limitations and monitoring requirements apply annually from April 1 through October 31, except as stated below: -fecal coliform may be reported instead of E. coli, for the first three months. After three months, E. coli must be used. The monthly average level for E. coli is 125/100 and the daily max is 235/100. A variance may be requested for fecal coliform monitoring from November 1 through March 31. A variance from the lead limitation may be requested on the basis that naturally occurring Pb concentrations in the receiving waters prevent the attainment of the standard. Chlorine (TRC) shall be used only from April 1 through November 30.

Outfall: 003 | Receiving Water: Ohio River | Treatment: PC

Amount/Components:
Approximately 0.14 mgd of clarifier blowdown from treatment plant.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al (TR)	N/A N/A	Report lb/d Report mg/l		1/week	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	24 hr total
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
TRC	N/A N/A	N/A Report mg/l		1/day	grab

Limitations/Monitoring Basis:
Monitoring only is required for flow and TSS. Outfall 003 may be used to discharge wastewater until three years after the effective date. If additional water treatment additives are to be used, the IDEM must be notified. Al and Cl must be measured and reported as "total recoverable" for Outfall 003 until such a test method is approved which measures acid-soluble metal. Chlorine will be used only from April 1 through November 30. If the permit is requested to be modified to extend beyond 3 years, final effluent limitations will be required.

Facility Name: General Electric - Mt. Vernon | **Permit Number:** IN0002101

Facility Description: Organic chemical and synthetic manufacturer | **SIC Code:** 2869

Outfall: 004 | **Receiving Water:** Ohio River | **Treatment:** None.

Amount/Components:
Approximately 0.25 mgd of cooling tower and boiler blowdown, treatment plant backwash, and stormwater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Al (TR)	N/A N/A	N/A Report mg/l		1/week	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	24 hr total
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Temp.	N/A Report	N/A Report	units: degrees Celsius	1/day	grab
TRC	N/A 0.020000 mg/l	N/A 0.040000 mg/l	interim lims=report only	1/day	grab
TSS	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	grab

Limitations/Monitoring Basis:
Monitoring only is required for flow, Al, and temperature. TRC is a WQ-based limitation. For Outfall 004, Al must be measured and reported as "total recoverable" until such a test method is approved which measures acid-soluble metal. Al must be monitored for 6 months to determine if it is in significant quantities. A review of the Al requirements may be requested after 6 months. Chlorine shall be used only from Apr. 1 through Nov. 30,annually. Compliance with the TRC limitation will be demonstrated if the observed effluent concentrations are less than the limit of detection.

Outfall: 005 | **Receiving Water:** Ohio River | **Treatment:** None.

Amount/Components:
Approximately 0.18 mgd of cooling tower and boiler blowdown, and stormwater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/day	24 hr total
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Temp.	N/A Report	N/A Report	units: degrees Celsius	1/day	grab

Limitations/Monitoring Basis:
Monitoring only is required for flow, temp., and pH.

Special Conditions Basis:
The permit contains additional conditions: The discharge shall be free of floating and settleable solids, shall not cause excessive foam in the receiving waters, shall not contain oil or other substances that cause a visible film or sheen on the receiving waters, and shall be free of substances that are unsightly or deleterious or that produce color, odor, or other conditions in such a degree as to create a nuisance. A reopener clause is present concerning incorporating more stringent effluent limitations should they be developed, the promulgation of stormwater regulations, conditions for WET limitations, and the use of an effluent diffuser with a mini dilution ratio of less than 13.7. If toxicity is demonstrated, a TRE is required. A schedule for compliance with the TRE requirement is provided. Post-TRE biomonitoring requirements are also specified. A BMP plan is required. Site-specific BMP requirements are specified in the permit.

Effective Date: 02/01/91 | **Expiration Date:** 11/30/95 | **Abstract Date:** 06/10/93

Facility Name: Inland Container Corporation | Permit Number: IN0036447

Facility Description: Corrugated paper container manufacturer | SIC Code: 2631

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	-	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	√

Abstract Information:
Complete for Outfall 001 with 001A created for abstracting purposes.

Outfall: 001 | Receiving Water: Wabash River | Treatment: PC, AnL, AerL, Sed

Amount/Components:
1.8 mgd of treated wastewaters from cooling tower blowdown, paper machine process, stock preparation, and sanitary wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/month	24hr composite
BOD5	1707.000000 lb/d N/A	3414.000000 lb/d N/A		3/week	grab
Coliform (T)	N/A N/A	N/A 235.000000	(E. coli) units=#/10 0 ml	1/month	grab
Flow	Report mgd N/A	Report mgd N/A		5/week	24hr total
NH3	332.000000 lb/d N/A	664.000000 lb/d N/A	summer limitation	3/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	5/week	grab
TSS	3750.000000 lb/d N/A	7500.000000 lb/d N/A		3/week	grab

Limitations/Monitoring Basis:
These limits are in effect from May 1 through November 30. E coli limitations are WQ-based in accordance with 327 IAC 2-1-6. BOD5 and TSS are ELG-based limitations per 40 CFR Part 430, Subpart E. pH and flow are monitoring only requirements. TSS is also based on the BPJ of daily production levels. The NH3 limit is based on Indiana WQS of instream chronic toxicity criteria per 327 IAC 2-1-6 (b)(5)(A). Disinfections for E. coli are only required from April 1 through October 31. Per Indiana WQS, all waters including the mixing zone shall be free of substances which amount to be acutely toxic to aquatic life. All waters outside of the mixing zone must be free of substances in concentrations sufficient to be chronically toxic. If biomonitoring indicates that toxicity is present at unacceptable levels, the permittee is required to locate the source of toxicity and reduce this to acceptable levels. Acute WET testing following includes a 96-hr definitive static renewal LC50 bioassay test using fathead minnow and a 48-hr definitive static renewal LC50 bioassay test using Ceriodaphnia or Daphnia. Another suitable species representative of the aquatic community of the receiving stream must be used in a definitive static renewal LC50 bioassay test.

Outfall: 001A | Receiving Water: Wabash River | Treatment: PC, AnL, AerL, Sed

Amount/Components:
1.8 mgd of treated wastewaters from cooling tower blowdown, paper machine process, stock preparation, and sanitary wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/month	24hr composite
BOD5	1707.000000 lb/d N/A	3414.000000 lb/d N/A		3/week	grab

Facility Name: Inland Container Corporation | **Permit Number:** IN0036447

Facility Description: Corrugated paper container manufacturer | **SIC Code:** 2631

Coliform (T)	N/A N/A	N/A 235.000000	(E. coli) units=#/10 0 ml	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		5/week	24hr total
NH3	693.000000 lb/d N/A	1386.000000 lb/d N/A	winter limitation	3/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	5/week	grab
TSS	3750.000000 lb/d N/A	7500.000000 lb/d N/A		3/week	grab

Limitations/Monitoring Basis:
These limits are in effect from December 1 through April 30. See basis for Outfall 001.

Special Conditions Basis:
A reopener clause is present based on stormwater and biomonitoring requirements. If changes are to be made in the use of water treatment additives, IDEM must be notified and the additive must be approved before use. Within 90 days of the permit's effective date. If toxicity is demonstrated, a TRE must be conducted. Chemical sampling must accompany each water sample taken for WET testing and bioassay analysis. A schedule of compliance for a TRE is provided in the permit in the case that toxicity has been found. After completion of a TRE, monthly toxicity tests must be performed for a period of 3 months. If no toxicity is shown, toxicity tests must be conducted once every six months for the duration of the permit. The permit also contains the following conditions: the discharge shall be free of floating and settleable solids, shall not cause excessive foam in the receiving waters, shall not contain oil or other substances in amounts sufficient enough to create a visible film or sheen on the receiving waters, and shall be free of substances that are in amounts sufficient to be unsightly or deleterious or which produce color, odor, or other conditions in such a degree as to create a nuisance.

Effective Date: 11/01/91 | **Expiration Date:** 09/30/96 | **Abstract Date:** 06/16/93

Facility Name: Roll Coater, Inc. | Permit Number: IN0038172

Facility Description: Coil coating facility that paints and coats steel coils. | SIC Code: 3479

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	√

Abstract Information:
Complete: Outfall 001.

Outfall: 001 | Receiving Water: Travis Ditch | Treatment: Not specified

Amount/Components:
Approximately 0.145 mgd of wastewaters from coil washing, zinc phosphating, oxide coating, chrome rinsing, and painting.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	2/year	24hr fw composite
Chloride	Report lb/d Report mg/l	Report lb/d Report mg/l		1/quarter	24hr fw composite
Chronic WET	N/A N/A	N/A Report	See below	2/year	24hr fw composite
CN (T)	N/A N/A	N/A Report mg/l	See below	1/quarter	24hr fw composite
Cr (T)	Report lb/d Report mg/l	0.300000 lb/d 0.250000 mg/l		1/month	24hr fw composite
Cr+6	0.100000 lb/d 0.080000 mg/l	0.220000 lb/d 0.180000 mg/l		1/week	grab
Cu (TR)	0.220000 lb/d 0.180000 mg/l	0.500000 lb/d 0.410000 mg/l	See below	1/week	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		1/week	24hr total
O&G	12.100000 lb/d 10.000000 mg/l	18.100000 lb/d 15.000000 mg/l		1/week	grab
Pb (TR)	0.110000 lb/d 0.090000 mg/l	0.250000 lb/d 0.210000 mg/l	See below	1/week	24hr fw composite
pH	N/A Report su	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
SO4	Report lb/d Report mg/l	Report lb/d Report mg/l		2/month	24hr fw composite
TSS	12.100000 lb/d 10.000000 mg/l	18.100000 lb/d 15.000000 mg/l		1/week	24hr fw composite
Zn (TR)	2.200000 lb/d 1.820000 mg/l	5.130000 lb/d 4.240000 mg/l	See below	1/week	24hr fw composite

Limitations/Monitoring Basis:
State WQ-based limitations although ELGs have been promulgated, derived by the TSD method were used for TSS, O&G, Cr(T), Cr+6, Zn, CN, Pb, and pH from State Standards in 327 IAC 2-1. The limits for TSS and O&G are the same as the previous permit. Monitoring only requirements were set for flow (pursuant to 40 CFR Part 122.44(i), and chlorides, and sulfates based on DMR data. Limits for Cr(T), Cr+6, Cu, Pb, and Zn are based on the dilution provided by the stream and a multiport diffuser. Cu, Pb, and Zn should be analyzed by a test method which will measure the quantity of acid-soluble metal present, however an approved method is not yet available. These parameters shall be measured and reported as total recoverable metal in the interim. If CN(T) is reported to be present in any monitoring period, IDEM reserves the right to modify the permit to include appropriate effluent limitations. WET testing using Leriodaphnia dubia and the fathead minnow must be initiated within 990 days of the effective date of the permit. The toxicity tests shall be conducted monthly for 3 months, and provided no toxicity is shown, once every six months thereafter for the duration of the permit. Acute toxicity will be demonstrated if the effluent is observed to have

Facility Name: Roll Coater, Inc.	Permit Number: IN0038172
Facility Description: Coil coating facility that paints and coats steel coils.	SIC Code: 3479

an LC 50 of less than 7.0% effluent of the test organism. Chronic toxicity is shown if the NOEL is less than 7.0%. If acute or chronic toxicity is found, another test must be performed using the same test species.

Special Conditions Basis:

The permit contains the following conditions: No excessive foam shall be present in the receiving waters. The discharge shall be fee of floating and settleable solids. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters. No unsightly or deleterious substances or substances which produce color, odor, or other conditions that may create a nuisance are permitted. If any two WET tests indicate the presence of toxicity, a TRE must be initiated. WET tests required by the permit may be suspended while the TRE is conducted. TRE plan requirements and a compliance schedule are provided in the permit. A reopener clause based on the promulgation of more stringent toxic effluent standards. The permittee is required to provide containment facilities for cyanide or cyanogen compounds (when these compounds are used) in accordance with the requirements of 327 IAC 2-2-1.

Effective Date: 02/01/93	Expiration Date: 12/31/97	Abstract Date: 06/09/93

Facility Name: ABB Power T&D Co., Inc. | Permit Number: IN0053384

Facility Description: Manufacturer of misc. electronic components used for electric power. | SIC Code: 3679

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	√	√	√

Abstract Information:
Partial: Outfalls 001 (representative of outfalls 101 and 003) and 002.

Outfall: 001 | Receiving Water: Unnamed ditch to sinkhole | Treatment: None.

Amount/Components:
Varying amounts of stormwater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Al (TR)	N/A 0.170000 mg/l	N/A 0.400000 mg/l		1/week	grab
CN	N/A Report mg/l	N/A Report mg/l		1/month	grab
Flow	N/A Report mg/l	N/A Report mg/l		1/week	instantaneous
Isopropylbiphenyl	N/A Report ug/l	N/A Report ug/l	See below	1/month	grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	grab
PCBs (T)	N/A Report ug/l	N/A 0.001000 ug/l	See below	1/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/month	grab
Tetrachloroethylene	N/A Report ug/l	N/A 8.000000 ug/l	See below	1/month	grab
Trichloroethylene	N/A Report ug/l	N/A 27.000000 ug/l	See below	1/month	grab
Zn (TR)	N/A 0.160000 mg/l	N/A 0.380000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:
Oil and grease limitations are WQ-based per State WQSs 327 (IAC 2-1-6). The permit contains a compliance schedule for attaining the Al limits. pH is also a WQ-based limitation and is the same as the previous permit. The PCBs limitation is based on State WQSs. Zn and Al limitations are based on State WQSs and their chronic toxicity to warmwater aquatic life at a hardness of 250 mg/l. Isopropylbiphenyl and cyanide are to be monitored toensure they are not discharged because they have been detected in the effluent. The monitoring and limits for tetrachlorethylene and trichloroethylene were established to ensure these parameters are not discharged to thereceiving waters.

Outfall: 002 | Receiving Water: Two tributaries to Stout Creek | Treatment: None

Amount/Components:
Varying amounts of stormwater.

Parameter	Limitations: monthly Average	Limitations: daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A N/A		1/month	instantaneous
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/month	grab

Facility Name: ABB Power T&D Co., Inc.					Permit Number: IN0053384
Facility Description: Manufacturer of misc. electronic components used for electric power.					SIC Code: 3679
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	grab

Limitations/Monitoring Basis:
See the discussion for outfall 001.

Special Conditions Basis:
A BMP Plan must be developed within 6 months after the permit's effective date and implemented within 6 months after approval. Site-specific BMP requirements are provided in the permit including testing for PCBs in the facility property. Flow shall be measured at approximately the same time as the effluent is sampled for the other parameters. Compliance with the PCB limitations is based on the limit of detection provided in the permit. The samples taken for PCBs analysis must not be filtered prior to analysis. If isopropylbiphenyl, PCE, TCE, and/or CN are detected in the effluent, the permit may be modified to set limits. The weekly wastewater sample must be taken during the first precipitation event, ice or snow melt of each calendar week. The permit contains a reopener clause stating that the permit may be modified to include more stringent or different conditions necessary. The permit specifies that the discharge shall be free of floating and settleable solids, shall not cause excessive foam in the receiving waters, shall not contain oil or other substances in amounts sufficient enough to create a visible film or sheen on the receiving waters, and shall be free of substances that are in amounts sufficient to be unsightly or deleterious or which produce color, odor, or other conditions in such a dgree as to create a nuisance.

Effective Date: 06/01/91 Expiration Date: 04/30/96 Abstract Date: 06/15/93

Facility Name: Total Petroleum/Ark. Refinery | Permit Number: KS0000434

Facility Description: Petroleum refinery | SIC Code: 2911

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfall 001 with 001A created for abstracting purposes.

Outfall: 001 | Receiving Water: Walnut River | Treatment: API, AerL

Amount/Components:
0.85 MGD of process wastewater, boiler blowdown, cooling tower blowdown, and storm water runoff.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	263.000000 lb/d 30.000000 mg/l	473.000000 lb/d 45.000000 mg/l		1/week	Grab
Chloride	N/A N/A	N/A Report mg/l	See below	1/week	grab
COD	1834.000000 lb/d N/A	3535.000000 lb/d 350.000000 mg/l		1/week	Grab
Cr (T)	2.000000 lb/d 0.250000 mg/l	5.500000 lb/d 0.700000 mg/l		1/week	Grab
Cr+6	0.160000 lb/d 0.020000 mg/l	0.350000 lb/d 0.040000 mg/l		1/week	Grab
DO	N/A N/A	N/A Report mg/l		1/week	Grab
Flow	N/A N/A	N/A Report MGD		1/day	Weir
Fluoride	N/A N/A	N/A Report mg/l		1/week	grab
NH3-N	144.000000 lb/d 12.000000 mg/l	315.000000 lb/d 18.000000 mg/l		1/week	Grab
O&G	77.000000 lb/d 10.000000 mg/l	143.000000 lb/d 15.000000 mg/l		1/week	Grab
Other	1.400000 lb/d 0.170000 mg/l	3.100000 lb/d 0.390000 mg/l	Sulfides	1/week	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su		
Phenols	1.700000 lb/d 0.200000 mg/l	3.500000 lb/d 0.450000 mg/l		1/week	Grab
SO3	N/A N/A	N/A Report mg/l	See below	1/week	Grab
TSS	210.000000 lb/d 80.000000 mg/l	330.000000 lb/d 120.000000 mg/l		1/week	Grab

Limitations/Monitoring Basis:
The limits shown for NH3-N apply April through October. The November-March limits for NH3-N are 144 lb/d and 24 mg/l daily average and 315 lb/d and 36 mg/l daily maximum. Sulfates and chlorides are to be monitored biannually during February and August. The limits and monitoring requirements were based on ELGs in 40 CFR Part 419 for mass limitations, BPJ, and historical performance data and/or State WQSs for concentration limitations.

Facility Name: Total Petroleum/Ark. Refinery | **Permit Number:** KS0000434

Facility Description: Petroleum refinery | **SIC Code:** 2911

Outfall: 001A | **Receiving Water:** Walnut River | **Treatment:** API+AerL

Amount/Components:
Unspecified amount of contaminated runoff.

Parameter	Limitations			Monitoring Requirements	
	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	0.220000 N/A	0.400000 N/A	Units: lb/1000 gal	1/day	See below
COD	1.500000 N/A	3.000000 N/A	Units: lb/1000 gal	1/day	See below
Cr (T)	0.001800 N/A	0.005000 N/A	Units: lb/1000 gal	1/day	See below
Cr+6	0.000230 N/A	0.000520 N/A	Units: lb/1000 gal	1/day	See below
Flow	N/A N/A	N/A Report	Units: 1000 g/d	1/day	See below
O&G	0.067000 N/A	0.130000 15.000000 mg/l	Units: lb/1000 gal	1/day	See below
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	See below
Phenols	0.001400 N/A	0.002900 N/A	Units: lb/1000 gal	1/day	See below
TOC	N/A N/A	N/A 110.000000 mg/l			See below
TSS	0.180000 N/A	0.280000 N/A	Units: lb/1000 gal	1/day	See below

Limitations/Monitoring Basis:
The limitations shown for Outfall 001A are allocations allowed for contaminated storm water runoff. If the contaminated runoff is commingled or treated with the process wastewater, or if wastewater consisting solely of contaminated runoff which exceeds 15 mg/l O&G or 100 mg/l TOC, the quantity of the above pollutants shall not exceed the quantity determined by multiplying the flow of contaminated runoff by the concentrations shown above.For reporting purposes, the permittee calculates the storm water allocation for each daily event and adds it to the production based allocation. The permittee is required to provide a detailed explanation of the method used to determine storm water flow. A footnote to the table provides that when the wastewater consists solely of contaminated runoff that is not commingled or treated with process wastewater, the appropriate sample type maybe grab or composite, and it may be discharged if it does not exceed 15 mg/l O&G and 100 mg/l TOC. These storm water limitations were based on guidance provided in 50 FR 28522, July 12, 1985 and 50 FR 32414.

Special Conditions Basis:
The closure of 2 oil skimming lagoons is addressed.

Effective Date: 12/03/86 | **Expiration Date:** 12/02/91 | **Abstract Date:** 09/10/93

Facility Name: IBP, Inc. | Permit Number: KS0000817

Facility Description: High process beef packing | SIC Code: 2011

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	√	√	√

Abstract Information:
Complete; Outfalls 001, 002, 003.

Outfall: 001 | Receiving Water: Neosho R./Cottonwood R./Fox Cr | Treatment: AS + AnL + AerL

Amount/Components:
Unspecified amount from the final clarifier on an emergency basis.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A N/A	N/A Report	See below	2/month	Grab
FC	N/A N/A	N/A Report	See below	2/month	Grab
Flow	N/A N/A	N/A Report MGD		1/day	Weir
NH3-N	N/A N/A	N/A Report	See below	2/month	Grab
O&G	N/A N/A	N/A Report	See below	2/month	Grab
pH	N/A N/A	N/A Report	See below	2/month	Grab
TRC	N/A N/A	N/A 0.011000 mg/l		1/week	Grab
TSS	N/A N/A	N/A Report	See below	2/month	Grab

Limitations/Monitoring Basis:
The permittee is required to notify the permitting authority 10 days prior to any discharge from Outfall 001. The total mass and concentration limits, monitoring frequency, and sample type given in the permit for Outfall002 apply for either discharge point or the combined discharges from both outfalls. The permit fact sheet specifies that the limits and monitoring conditions are provided to protect designated water uses and the water quality of the Cottonwood River. While not describing the basis for individual limits, the permit fact sheet states that ELGs from 40 CFR Part 432, Subpart D were used. Concentration limitations were established using BPJ and historical performance data as well as State WQSs. A maximum effluent flow of 4.48 MGD was used to calculate mass limitations using 40 CFR Part 432.

Outfall: 002 | Receiving Water: Neosho R./Cottonwood R./Fox Cr | Treatment: AS + AnL + AerL

Amount/Components:
2.25 MGD from the lagoon system consisting of process discharges.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	2/5 years	not given
BOD5	1234.000000 lb/d 40.000000 mg/l	1494.000000 lb/d 40.000000 mg/l	See below	2/month	Grab
FC	N/A N/A	N/A 400.000000	Units: #/100	2/month	Grab

Facility Name: IBP, Inc. | **Permit Number:** KS0000817

Facility Description: High process beef packing | **SIC Code:** 2011

Flow	N/A N/A	N/A Report MGD			Total
NH3-N	N/A N/A	853.000000 lb/d 22.000000 mg/l	See below	2/month	Grab
O&G	569.000000 lb/d 15.000000 mg/l	1138.000000 lb/d 30.000000 mg/l		2/month	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	2/month	Grab
TRC	N/A N/A	N/A Report mg/l		2/month	Grab
TSS	1636.000000 lb/d 80.000000 mg/l	3272.000000 lb/d 120.000000 mg/l		2/month	Grab

Limitations/Monitoring Basis:
See the basis provided for Outfall 001. The limits shown for BOD5 apply October-May. BOD5 limits for June and September are 38 mg/l and 1234 lb/d daily average and 38 mg/l and 1420 lb/d daily maximum. BOD5 limits for July and August are 25 mg/l and 934 lb/d daily average and daily maximum. The limits shown for NH3-N apply December-February. The NH3-N daily maximum which apply March and November are 15 mg/l and 568 lb/d; April and October limits are 8 mg/l and 327 lb/d; May-September limits are 4 mg/l and 179 lb/d. Acute WET tests are to be conducted in July 1994 and December 1996 using 2 specified species and following specified State procedures. If the WET test results show greater than 20% mortality in any dilution ratio, the permittee is required to notify the permitting authority.

Outfall: 003 | **Receiving Water:** Cottonwood River | **Treatment:** None

Amount/Components:
Instream monitoring

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
NH3-N	N/A N/A	N/A Report mg/l		2/month	Grab
pH	N/A N/A	N/A Report		2/month	Grab
Temp.	N/A N/A	N/A Report	Units: degrees Farenheit	2/month	Grab

Limitations/Monitoring Basis:
The basis for these monitoring conditions was not specifically provided.

Special Conditions Basis:
Guidance for meeting the TRC limit at Outfall 001, which is below detection level, is provided. The permittee is required to sample and report results from the observation wells in the groundwater system bordering the treatment ponds 1/quarter for pH, chlorides, nitrates, ammonia, and BOD5 using 3 grabs. Guidance for sludge application is provided. The use of earthen lagoons is addressed. This is a draft permit.

Effective Date: N/A | **Expiration Date:** N/A | **Abstract Date:** 09/08/93

Facility Name: Farmland Industries, Inc. | Permit Number: KS0001601

Facility Description: Produces nitrogenous fertilizer | SIC Code: 2873

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | Receiving Water: Kansas River | Treatment: Neut+Sed

Amount/Components:
0.9 MGD of process wastewater, cooling tower blowdown and storm water runoff.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	Grab
COD	N/A 90.000000 mg/l	N/A 135.000000 mg/l		1/week	24hr composite
Flow	N/A N/A	N/A Report MGD		1/day	Total
N (T)	Report lb/d Report mg/l	Report lb/d Report mg/l	See below	1/week	Sum N
NH3-N	659.000000 lb/d 80.000000 mg/l	1421.000000 lb/d 120.000000 mg/l		1/week	Grab
NO3	253.000000 lb/d N/A	680.000000 lb/d N/A		1/week	24hr composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/week	Grab
TON	782.000000 lb/d 80.000000 mg/l	1462.000000 lb/d 145.000000 mg/l		1/week	Grab
TSS	N/A Report mg/l	N/A Report mg/l		1/week	Composite

Limitations/Monitoring Basis:
N(T) represents a sum of all measured N values. Acute WET testing is to be conducted quarterly during 1992, and 2/year thereafter following State guidance using 2 species. The LC50 is to be determined using 20% effluentor greater. If any acute toxicity test indicates toxicity, the permittee is required to notify the permitting authority and initiate a replicate test. The requirements for flow, TSS, N(T), and acute WET were based on BPJ. ELGs in 40 CFR Part 418 and historical performance data were used to determine limits and monitoring requirements for NH3-N, TON and NO3. Limits and/or monitoring requirements for pH were based on 40 CFR Part 423 usingBPJ (cooling tower blowdown). The limits and monitoring requirements for COD were based on historical performance data and BPJ.

Special Conditions Basis:
The use of earthen lagoons is addressed.

Effective Date: 09/30/91 | Expiration Date: 09/01/96 | Abstract Date: 09/09/93

Facility Name: Midwest Grain Products, Inc. | **Permit Number:** KS0001635

Facility Description: Distiller of alcohol using wheat starch and gluten | **SIC Code:** 2085

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	-	√	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	-

Abstract Information:
Complete; Outfalls 001A and 001B.

Outfall: 001A | **Receiving Water:** Missouri R via White Clay Crk. | **Treatment:** None

Amount/Components:
2.5 MGD of cooling water.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A N/A	N/A 10.000000 mg/l		2/week	24hr composite
Flow	N/A N/A	N/A Report MGD		1/day	Parshall flume
pH	N/A Report	N/A Report	Between 6.0 su and 9.0 su	2/week	grab
Temp.	N/A N/A	N/A Report	Units: degrees Farenheit	2/week	Grab
TSS	N/A Report	N/A Report		2/week	24hr composite

Limitations/Monitoring Basis:
Monitoring requirements for flow, TSS, and temperature were based on BPJ. The pH limits were based on State WQSs. The limit and monitoring requirement for BOD5 were based on BPJ and historical performance data.

Outfall: 001B | **Receiving Water:** Missouri R via White Clay Crk. | **Treatment:** Aer+PC

Amount/Components:
1.15 MGD treated process wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	1160.000000 lb/d 45.000000 mg/l	3414.000000 lb/d 90.000000 mg/l		2/week	24hr composite
Flow	N/A N/A	N/A Report MGD		1/day	Parshall flume
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	2/week	Grab
TSS	1267.000000 lb/d 45.000000 mg/l	3874.000000 lb/d 90.000000 mg/l		2/week	24hr composite

Limitations/Monitoring Basis:
Flow monitoring requirements were based on BPJ. The BOD5 and TSS limits and monitoring requirements were based on ELGs in 40 CFR Parts 406 and 414, BPJ, and historical performance data. The pH limits were based on StateWQSs.

Special Conditions Basis:
The permittee is required to conduct one-time testing for all pollutants identified under Part V-C of "EPA Form 2C - Wastewater Discharge Informatio," including; metals, cyanide, total phenols, GC/MS fraction - volatile compounds, GC/MS fraction - acid compounds, GC/MS base neutral compounds, and GC/MS fraction pesticides.

Effective Date: 06/04/92 | **Expiration Date:** 09/30/96 | **Abstract Date:** 09/09/93

Facility Name: DOE-Paducah Gaseous Diffusion | Permit Number: KY0004049

Facility Description: Isotopic enrichment of uranium hexafluoride | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	√	√	√	√

Abstract Information:
Partial; Outfalls 001, 002, 003, 004, 005, 006, 008 (representing 009-012), 013 (representing 015-018), and 014.

Outfall: 001 | Receiving Water: Big Bayou Creek | Treatment: ChRed, Sed, Neut, AL

Amount/Components:
1.59 MGD of chromium reduction cooling tower blowdown, misc. steam plant wastewater, misc. floor drains, stormwater runoff, and other components.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Al (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Alpha (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Alpha (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Cd (TR)	N/A 0.002000 mg/l	N/A 0.011000 mg/l		2/month	Grab
Chronic WET	N/A Report	N/A 1.000000		Variable	24hr composite
Cr+6	N/A 0.011000 mg/l	N/A 0.016000 mg/l		2/month	Grab
Cu (TR)	N/A 0.026000 mg/l	N/A 0.042000 mg/l		2/month	Grab
Fe (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Flow	N/A Report MGD	N/A Report MGD		1/week	Instant.
Hardness	N/A Report mg/l	N/A Report mg/l	mg/l as CaCO3	1/week	Grab
Ni (TR)	N/A 0.342000 mg/l	N/A 3.079000 mg/l		2/month	Grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	Grab
Other	N/A 1.000000 mg/l	N/A 1.000000 mg/l	Isopropanol	1/month	Grab
P (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l	Only P, not total	1/week	Grab
Pb (TR)	N/A 0.010000 mg/l	N/A 0.262000 mg/l		2/month	Grab
PCBs (T)	N/A 0.000079 mg/l	N/A 0.000079 mg/l		1/month	Grab

Facility Name: DOE-Paducah Gaseous Diffusion | Permit Number: KY0004049

Facility Description: Isotopic enrichment of uranium hexafluoride | SIC Code: 4931

pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/week	Grab
Temp.	N/A 86.000000	N/A Report	Units: degrees Faren heit	1/week	Grab
TRC	N/A 0.010000 mg/l	N/A 0.019000 mg/l		1/week	Grab
Trichloroethylene	N/A 0.081000 mg/l	N/A 0.081000 mg/l		1/month	Grab
TSS	N/A Report mg/l	N/A Report mg/l		1/week	Grab
U (T)	N/A Report mg/l	N/A Report mg/l		1/week	Grab
Zn (TR)	N/A 0.230000 mg/l	N/A 0.254000 mg/l		2/month	Grab

Limitations/Monitoring Basis:
O&G limits are BPJ-based limitations established pursuant to the State's authority authority to set BPJ-based limits. Cd(TR), Cu(TR), Cr+6, Pb(TR), Ni(TR), Zn(TR), trichloroethylene, TRC, PCBs, and chronic WET limits areWQ-based limitations derived by the Steady State Wasteload Allocation Model. Acetone, isopropanol, P, temp., TRC, and pH are WQ-based limitations consistent with State surface water standards. Chronic toxicity testing must be conducted quarterly using two species the first year; the State may designate the most sensitive species for testing after this initial monitoring. Retesting within 15 days must be performed if toxicity is evident. Accelerated 1/month testing may be required if toxicity exceedances persist. Hardness, TSS, Al(TR), Fe(TR), U(T), alpha(SS), beta(DS), and beta (SS) monitoring requirements were established based on the permit writer's judgement and are consistent with State surface water standards. A discussion of the basis of the remaining monitoring conditions was not provided.

Outfall: 002 | Receiving Water: Little Bayou Creek | Treatment: AS

Amount/Components:
0.82 MGD of once through cooling water, floor and roof drains, and drains for eyewash baths, safety showers, and water fountains.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al (TR)	N/A Report mg/l	N/A Report mg/l		1/month	Grab
Alpha (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Alpha (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Cd (TR)	N/A 0.001000 mg/l	N/A 0.004000 mg/l		1/month	Grab
Chronic WET	N/A Report	N/A 1.000000		Variable	24hr composite
Cr (TR)	N/A 0.001000 mg/l	N/A 0.016000 mg/l		1/month	Grab
Cu (TR)	N/A 0.012000 mg/l	N/A 0.018000 mg/l		1/month	Grab
Fe (TR)	N/A Report mg/l	N/A Report mg/l		1/month	Grab

Facility Name: DOE-Paducah Gaseous Diffusion | Permit Number: KY0004049

Facility Description: Isotopic enrichment of uranium hexafluoride | SIC Code: 4931

Flow	N/A Report MGD	N/A Report MGD		1/month	Instant.
Hardness	N/A Report mg/l	N/A Report mg/l	mg/l as CaCO3	1/month	Grab
Ni (TR)	N/A 0.158000 mg/l	N/A 1.418000 mg/l		1/month	Grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/month	Grab
P (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l	Only P, not total	1/month	Grab
Pb (TR)	N/A 0.003000 mg/l	N/A 0.082000 mg/l		1/month	Grab
PCBs (T)	N/A 0.000079 mg/l	N/A 0.000079 mg/l		1/month	Grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	Grab
Temp.	N/A 86.000000	N/A Report	Units: degrees Faren heit	1/month	Grab
TRC	N/A 0.010000 mg/l	N/A 0.019000 mg/l		1/month	Grab
Trichloroethylene	N/A 0.081000 mg/l	N/A 0.081000 mg/l		1/month	Grab
TSS	N/A Report mg/l	N/A Report mg/l		1/month	Grab
U (T)	N/A Report mg/l	N/A Report mg/l		1/quarter	Grab
Zn (TR)	N/A 0.106000 mg/l	N/A 0.117000 mg/l		1/month	Grab

Limitations/Monitoring Basis:
O&G, TSS, and hardness limits are BPJ-based limits established pursuant to the State's authority to set BPJ-based limits. Cd(TR), Cu(TR), Cr(TR), Pb(TR), Ni(TR), Zn(TR), trichloroethylene, TRC, PCBs, and chronic WET limits are WQ-based limitations derived by the Steady State Wasteload Allocation Model. The limitations set forth for Cr(T) are the Cr+6 WQ-based limitations contained in the calculations. P, temp. and pH are WQ-based limitations consistent with State surface water standards. Chronic toxicity testing must be conducted quarterly using two species the first year; the State may designate the most sensitive species for testing after this initial testing. Retesting within 15 days must occur if toxicity is evident. Accelerated 1/month testing may be required if toxicity exceedances persist. Al(TR), Fe(TR), U(T), alpha(SS), beta(DS), and beta (SS) monitoring requirements were established based on the permit writer's judgement and are consistent with State surface water standards. A discussion of the basis of the remaining monitoring conditions was not provided.

Outfall: 003 | Receiving Water: Little Bayou Creek | Treatment: Not described

Amount/Components:
Typically no discharge; can receive diversion ditch wastewaters not going to 001.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Al (TR)	N/A Report mg/l	N/A Report mg/l		1/month	Grab
Alpha (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Alpha (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab

Facility Name: DOE-Paducah Gaseous Diffusion					Permit Number: KY0004049
Facility Description: Isotopic enrichment of uranium hexafluoride					SIC Code: 4931
Beta (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Cd (TR)	N/A 0.001000 mg/l	N/A 0.004000 mg/l		1/month	Grab
Cr (TR)	N/A 0.001000 mg/l	N/A 0.016000 mg/l		1/month	Grab
Cu (TR)	N/A 0.012000 mg/l	N/A 0.018000 mg/l		1/month	Grab
Fe (TR)	N/A Report mg/l	N/A Report mg/l		1/month	Grab
Flow	N/A Report MGD	N/A Report MGD		1/month	Instant.
Hardness	N/A Report mg/l	N/A Report mg/l	mg/l as CaCO3	1/month	Grab
Ni (TR)	N/A 0.158000 mg/l	N/A 1.418000 mg/l		1/month	Grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/month	Grab
P (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l	Only P, not total	1/month	Grab
Pb (TR)	N/A 0.003000 mg/l	N/A 0.082000 mg/l		1/month	Grab
PCBs (T)	N/A 0.000079 mg/l	N/A 0.000079 mg/l		1/month	Grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	Grab
Temp.	N/A 89.000000	N/A Report	Units: degrees Faren heit	1/month	Grab
TRC	N/A 0.010000 mg/l	N/A 0.019000 mg/l		1/month	Grab
Trichloroethylene	N/A 0.081000 mg/l	N/A 0.081000 mg/l		1/month	Grab
TSS	N/A Report mg/l	N/A Report mg/l		1/month	Grab
U (T)	N/A Report mg/l	N/A Report mg/l		1/month	Grab
Zn (TR)	N/A 0.106000 mg/l	N/A 0.117000 mg/l		1/month	Grab

Limitations/Monitoring Basis:
O&G, TSS, and hardness limits are BPJ-based limitations established pursuant to the State's authority to set BPJ-based limits. Cd(TR), Cu(TR), Cr(TR), Pb(TR), Ni(TR), Zn(TR), trichloroethylene, TRC, and PCBs limitsare WQ-based limitations derived by the Steady State Wasteload Allocation Model. Acetone, isopropanol, P, temp., and pH are WQ-based limitations consistent with State surface water standards. Al(TR), Fe(TR), U(T), alpha(DS), alpha (SS), beta (DS), and beta (SS) monitoring requirements were established based on the permit writer's judgement consistent with State surface water standards. A discussion of the basis of the remaining monitoring conditions was not provided.

Facility Name: DOE-Paducah Gaseous Diffusion | Permit Number: KY0004049

Facility Description: Isotopic enrichment of uranium hexafluoride | SIC Code: 4931

Outfall: 004 | Receiving Water: Internal outfall via 008 | Treatment: Unspecified

Amount/Components:
0.423 MGD primarily composed of treated sanitary sewage including lab drains, showers, laundries, and other drains.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 30.000000 mg/l	N/A 45.000000 mg/l		2/month	Grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	2/month	Grab
Flow	N/A Report MGD	N/A Report MGD		2/month	Instant.
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	2/month	Grab

Limitations/Monitoring Basis:
Internal outfall limitations were established since dilution at Outfall 008 would not allow for the determination of compliance with secondary limitations. BOD5, FC, and pH limitations are established in accordance with State regulations which require biodegradeable wastes to meet specified effluent limitations. The fact sheet dictates that sewage treatment plants with flows more than 0.025 must meet secondary. A visual observation mustbe conducted and recorded once each weekday of the plant and its discharge. The basis of the visual observation and monitoring conditions were not described.

Outfall: 005 | Receiving Water: Big Bayou Creek | Treatment: AL

Amount/Components:
0.785 MGD of water treatment plant filter backwash and clarifier sludge.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Cd (TR)	N/A 0.001000 mg/l	N/A 0.004000 mg/l		2/month	Grab
Cr (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Cu (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Fe (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Flow	N/A Report MGD	N/A Report MGD		1/week	Instant.
Hardness	N/A Report mg/l	N/A Report mg/l	mg/l as CaCO3	1/week	Grab
Ni (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	Grab
P (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l	Only P, not total	1/week	Grab
Pb (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
PCBs (T)	N/A 0.000079 mg/l	N/A 0.000079 mg/l		1/month	Grab

Facility Name: DOE-Paducah Gaseous Diffusion | Permit Number: KY0004049

Facility Description: Isotopic enrichment of uranium hexafluoride | SIC Code: 4931

pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/week	Grab
TRC	N/A 0.010000 mg/l	N/A 0.019000 mg/l		1/week	Grab
TSS	N/A Report mg/l	N/A Report mg/l		1/week	Grab
Zn (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab

Limitations/Monitoring Basis:
O&G and TSS limits are BPJ-based limitations established pursuant to the State's authority to set BPJ-based limits. TRC and PCBs are WQ-based limitations consistent with State surface water standards as derived by the Steady State Wasteload Allocation Model. P and pH are WQ-based limitations consistent with State surface water standards. Hardness monitoring requirements were established based on the permit writer's judgement. Al(TR), Fe(TR), Cr(TR), Cd(TR), Cu(TR), Pb(TR), Ni(TR), and Zn(TR) monitoring requirements were established based on the permit writer's judgement consistent with State surface water standards. A discussion of the basis of the remaing conditions was not provided.

Outfall: 006 | Receiving Water: Big Bayou Creek | Treatment: AL

Amount/Components:
0.785 MGD of water treatment plant filter backwash and clarifier sludge.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Cd (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Chronic WET	N/A N/A	N/A 1.000000		Variable	24hr composite
Cr (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Cu (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Fe (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Flow	N/A Report MGD	N/A Report MGD		1/week	Instant.
Hardness	N/A Report mg/l	N/A Report mg/l	mg/l as CaCO3	1/week	Grab
Ni (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	Grab
P (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l	Only P, not total	1/week	Grab
Pb (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
PCBs (T)	N/A 0.000079 mg/l	N/A 0.000079 mg/l		1/month	Grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/week	Grab
TRC	N/A 0.010000 mg/l	N/A 0.019000 mg/l		1/week	Grab

Facility Name: DOE-Paducah Gaseous Diffusion				Permit Number: KY0004049	
Facility Description: Isotopic enrichment of uranium hexafluoride					SIC Code: 4931
TSS	N/A 30.000000 mg/l	N/A 50.000000 mg/l		1/week	Grab
Zn (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab

Limitations/Monitoring Basis:
O&G and TSS limits are BPJ-based limitations established pursuant to the State's authority to set BPJ-based limits. TRC and PCBs are WQ-based limitations consistent with State surface water standards as derived by the Steady State Wasteload Allocation Model. P and pH are WQ-based limitations consistent with State surface water standards. Hardness monitoring requirements were established based on the permit writer's judgement. Al(TR), Fe(TR), Cr(TR), Cd(TR), Cu(TR), Pb(TR), Ni(TR), and Zn(TR) monitoring requirements were established based on the permit writer's judgement consistent with State surface water standards. Chronic toxicity limits are established consistent with State standards for prohibition of degradation and in accordance with acceptable numerical mixing zones. Chronic toxicity testing must be conducted quarterly using 2 species the first year; the State may designate the most sensitive species for testing after this initial monitoring. Retesting within 15 days must be conducted if toxicity is evident. Accelerated 1/month testing may be required if toxicity exceedances persist. A discussion of the basis for the remaining monitoring conditions was not provided.

Outfall: 008 | Receiving Water: Big Bayou Creek | Treatment: DeCl

Amount/Components:
0.176 MGD of wastewaters from roof and floor drains, steam condensate, cooling water, paint spray booth wash water, and miscellaneous drains.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Alpha (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Alpha (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Cd (TR)	N/A 0.001000 mg/l	N/A 0.004000 mg/l		2/month	Grab
Chronic WET	N/A Report	N/A 1.000000		Variable	24hr composite
Cr (T)	N/A 0.011000 mg/l	N/A 0.016000 mg/l		2/month	Grab
Cu (TR)	N/A 0.012000 mg/l	N/A 0.018000 mg/l		2/month	Grab
Fe (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Flow	N/A Report MGD	N/A Report MGD		1/week	Instant.
Hardness	N/A Report mg/l	N/A Report mg/l	mg/l as CaCO3	1/week	Grab
Ni (TR)	N/A 0.158000 mg/l	N/A 1.418000 mg/l		2/month	Grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	Grab
P (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l	Only P, not total	1/week	Grab

Facility Name: DOE-Paducah Gaseous Diffusion				Permit Number: KY0004049	
Facility Description: Isotopic enrichment of uranium hexafluoride					SIC Code: 4931
Pb (TR)	N/A 0.003000 mg/l	N/A 0.082000 mg/l		2/month	Grab
PCBs (T)	N/A 0.000079 mg/l	N/A 0.000079 mg/l		1/month	Grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/week	Grab
Temp.	N/A 89.000000	N/A Report	Units: degrees Faren heit	1/week	Grab
TRC	N/A 0.010000 mg/l	N/A 0.019000 mg/l		1/week	Grab
Trichloroethylene	N/A 0.081000 mg/l	N/A 0.081000 mg/l		1/month	Grab
TSS	N/A Report mg/l	N/A Report mg/l		1/week	Grab
U (T)	N/A Report mg/l	N/A Report mg/l		1/week	Grab
Zn (TR)	N/A 0.106000 mg/l	N/A 0.117000 mg/l		2/month	Grab

Limitations/Monitoring Basis:
O&G limits are BPJ-based limitations established pursuant to the State's authority authority to set BPJ-based limits. Cd (TR), Cu (TR), Cr (TR), Pb(TR), Ni (TR), Zn (TR), trichloroethylene, TRC, and PCBs areWQ-based limitations derived by the Steady State Wasteload Allocation Model. Cr(TR) limitations are the Cr+6 WQ-based limitations contained in the calculations. P, temp, and pH limits are WQ-based limitations consistentwith State surface water standards. Chronic toxicity limits are WQ-based limitations consistent with State surface water standards and State general provisions as derived by the Steady State Wasteload Allocation Model. Chronic toxicity testing must be conducted quarterly using two species the first year; the State may designate the most sensitive species for testing after this initial monitoring. Hardness and TSS monitoring requirementswere established based upon the permit writer's judgement. Al(TR), Fe(TR), U(T), alpha (DS), alpha (SS), beta (DS) and beta (SS) monitoring requirements were established based on the permit writer's judgement consistent with State surface water standards. A discussion of the basis of the remaining monitoring conditions was not provided.

Outfall: 013 | **Receiving Water:** Little Bayou Creek | **Treatment:** Unspecified

Amount/Components:
1.49 MGD of surface runoff from the southwest plant corner.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al (TR)	N/A Report mg/l	N/A Report mg/l		1/month	Grab
Alpha (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Alpha (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (DS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Beta (SS)	N/A Report	N/A Report	Units: pCi/l	1/quarter	Grab
Cd (TR)	N/A 0.001000 mg/l	N/A 0.004000 mg/l		1/month	Grab
Chronic WET	N/A Report	N/A 1.000000		Variable	24hr composite
Cr (TR)	N/A 0.011000 mg/l	N/A 0.016000 mg/l		1/month	Grab

Facility Name: DOE-Paducah Gaseous Diffusion | Permit Number: KY0004049

Facility Description: Isotopic enrichment of uranium hexafluoride | SIC Code: 4931

Cu (TR)	N/A 0.012000 mg/l	N/A 0.018000 mg/l		1/month	Grab
Fe (TR)	N/A Report mg/l	N/A Report mg/l		1/month	Grab
Flow	N/A Report MGD	N/A Report MGD		1/month	Instant.
Hardness	N/A Report mg/l	N/A Report mg/l	mg/l as CaCO3	1/month	Grab
Ni (TR)	N/A 0.158000 mg/l	N/A 1.418000 mg/l		1/month	Grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/month	Grab
Pb (TR)	N/A 0.003000 mg/l	N/A 0.082000 mg/l		1/month	Grab
PCBs (T)	N/A 0.000079 mg/l	N/A 0.000079 mg/l		1/month	Grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	Grab
Trichloroethylene	N/A 0.081000 mg/l	N/A 0.081000 mg/l		1/month	Grab
TSS	N/A Report mg/l	N/A Report mg/l		1/month	Grab
U (T)	N/A Report mg/l	N/A Report mg/l		1/quarter	Grab
Zn (TR)	N/A 0.106000 mg/l	N/A 0.117000 mg/l		1/month	Grab

Limitations/Monitoring Basis:
O&G limits are BPJ-based limits established pursuant to the State's authority to set BPJ-based limits. Cd(TR), Cu(TR), Cr(TR), Pb(TR), Ni(TR), Zn(TR), trichloroethylene, and PCBs are WQ-based limitations consistent withState surface water standards derived by the Steady State Wasteload Allocation Model. The limitations set forth for Cr(TR) are the Cr+6 WQ-based limitations contained in the calculations. pH limits are WQ-based limitations consistent with State surface water standards. Chronic toxicity testing must be conducted quarterly using two species the first year; the State may designate the most sensitive species for testing after this initialtesting. Chronic toxicity monitoring is established consistent with State surface water standards and general provisions. Al (TR), Fe (TR), U (T), alpha (SS), alpha (DS), beta (DS), and beta (SS) monitoring requirementswere established based on the permit writer's judgement and are consistent with State surface water standards. A discussion of the basis of the remaining monitoring conditions was not provided.

Outfall: 014 | Receiving Water: Big Bayou Creek | Treatment: AL

Amount/Components:
Typically no discharge as this outfall serves as an alternate disposal of filter backwash.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Cd (TR)	N/A 0.001000 mg/l	N/A 0.004000 mg/l		2/month	Grab
Cu (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Fe (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
Flow	N/A Report MGD	N/A Report MGD		1/week	Instant.

Facility Name: DOE-Paducah Gaseous Diffusion | Permit Number: KY0004049

Facility Description: Isotopic enrichment of uranium hexafluoride | SIC Code: 4931

Hardness	N/A Report mg/l	N/A Report mg/l	mg/l as CaCO3	1/week	Grab
Ni (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/week	Grab
Pb (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab
PCBs (T)	N/A 0.000079 mg/l	N/A 0.000079 mg/l		1/month	Grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/week	Grab
TSS	N/A Report mg/l	N/A Report mg/l		1/week	Grab
Zn (TR)	N/A Report mg/l	N/A Report mg/l		2/month	Grab

Limitations/Monitoring Basis:
O&G and TSS limits are BPJ-based limitations established pursuant to the State's authority to set BPJ-based limits. TRC and PCBs are WQ-based limitations consistent with State surface water standards as derived by the Steady State Wasteload Allocation Model. pH limits are WQ-based limitations consistent with State surface water standards. Hardness monitoring requirements were established based on the permit writer's judgement. Al(TR), FeTR), Cr(TR), Cd(TR), Cu(TR), Pb(TR), Ni(TR), and Zn(TR) monitoring requirements were established based on the permit writer's judgement consistent with State surface water standards. A discussion of the basis of the remaing conditions was not provided.

Special Conditions Basis:
A generic BMP plan is required to be developed and implemented within one year; this condition was imposed to prevent accidental release of CWA Section 311 pollutants. The permittee is required to achieve the MDLs set out in 40 CFR Part 136. A TRE may be required by the State to address exceedance of the toxicity limit which is based upon State regulations. The permittee must conduct priority pollutant testing at 14 outfalls 3 times during the first and second years and before the permit expiration date. Other special conditions address the following: 1) requirements to provide notification prior to use of water treatment chemicals; 2) a prohibition of degradation of surface water due to radionuclides (specific parameters and limits are also provided); 3) requirements to provide notification prior to nonroutine discharges from 2 waste treatment facilities; 4) requirements to provide notification prior to ground water pump tests; 5) requirements to monitor rainfall and storm water runoff; 6) requirements allowing use of a composite sample in lieu of a grab sample on a case-by-case basis; and 7) requirements to develop and implement a monitoring plan which includes annual monitoring of water accumulated in conduit manholes and valve vaults (this condition was designed to determine if groundwater or storm water runoff contamination is occurring). Unless indicated above, a discussion of the need for or basis of the special conditions was not provided.

Effective Date: 11/01/92 | Expiration Date: 10/31/97 | Abstract Date: 02/25/93

Facility Name: CF Industries, Inc. | Permit Number: LA0000418

Facility Description: Nitrogenous fertilizer manufacturer | SIC Code: 2873

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	-	-	√	-	√	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	√

Abstract Information:
Complete; Outfall 001 (enumerated A and B for abstracting purposes) and 002.

Outfall: 001A | Receiving Water: Mississippi River | Treatment: Not described

Amount/Components:
5.47 MGD of process wastewater, cooling tower blowdown, sanitary wastewater, and storm water runoff.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A Report TUa	N/A Report Tua		1/quarter	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
NH3-N	2645.000000 lb/d N/A	5265.000000 lb/d N/A		3/week	24hr fw composite
NO3-N	2645.000000 lb/d N/A	5265.000000 lb/d N/A		3/week	24hr fw composite
Organic-N	2430.000000 lb/d N/A	4600.000000 lb/d N/A		3/week	24hr fw composite
Temp.	N/A 105.000000 F	N/A 115.000000 F		continuous	record
Zn	56.000000 lb/d N/A	80.000000 lb/d N/A		3/week	24hr fw composite

Limitations/Monitoring Basis:
Outfall 001A has been established as part of the permit abstract process to represent those limitations that are effective untill the start up of the new plant expansion. Limitations for all parameters are consistent with the past permit in accordance with anti-backsliding. Past permits limitations were ELG-based consistent with BAT and BCT of the fertilizer manufacturing category (40 CFR Part 418). The basis of the monitoring conditions was not discussed.

Outfall: 001B | Receiving Water: Mississippi River | Treatment: Not described

Amount/Components:
5.47 MGD of process wastewater, cooling tower blowdown, sanitary wastewater, and storm water runoff

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A Report TUa	N/A Report TUa		1/quarter	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
NH3-N	3358.000000 lb/d N/A	6737.000000 lb/d N/A		3/week	24hr fw composite
NO3-N	1057.000000 lb/d N/A	2255.000000 lb/d N/A		3/week	24hr fw composite
Organic-N	3006.000000 lb/d N/A	5680.000000 lb/d N/A		3/week	24hr fw composite

Facility Name: CF Industries, Inc.					**Permit Number:** LA0000418
Facility Description: Nitrogenous fertilizer manufacturer					**SIC Code:** 2873
Temp.	N/A 105.000000 F	N/A 115.000000 F		continuous	record
Zn	56.000000 lb/d N/A	80.000000 lb/d N/A		3/week	24hr fw composite

Limitations/Monitoring Basis:
Outfall 001B has been established as part of the permit abstract process to represent those limitations that become effective after the start up of the plant expansion. Only Organic-N, NO3-N, and NH3-N limitations are effected by the plant expansion. For these parameters, limitations are ELG-based consistent with NSPS for fertilizer manufacturing (40 CFR Part 418; Subpart C). Calculations supporting these changes were provided for Organic-N and NH3-N only.

Outfall: 002 | **Receiving Water:** Mississippi River | **Treatment:** Not described.

Amount/Components:
Unspecified amount of clarifier underflow.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Alkalinity	Report lb/d N/A	Report lb/d N/A	Phenol-phthalein method	1/week	grab
Clarifying agents	Report lb/d N/A	N/A N/A	See below		
Flow	N/A Report MGD	N/A Report MGD		1/week	estimate
TOC	Report lb/d N/A	Report lb/d N/A		1/week	grab
TSS	Report lb/d N/A	Report lb/d N/A		1/week	grab

Limitations/Monitoring Basis:
Reporting of the monthly average on a per pound basis of the clafifying agents used in the intake water systems is required. A discussion of the basis of the monitoring requirements was not provided.

Special Conditions Basis:
Requirements for the conduct and the submittal, within 30 days of a TRE plan are specified where toxicity is found in two consecutive samples. The TRE plan must specify the approach and methodology for the conduct of theTRE and the date of initiation of the TRE. TRE requirements are consistent with the EPA Region 6 approach, requirements for advance notification prior to the completion of the plant expansion are also specified. A discussion of the basis of the special conditions other than described above were not provided.

Effective Date: 08/29/92 **Expiration Date:** 08/28/97 **Abstract Date:** 04/13/93

Facility Name: Agrico Chemical Company | Permit Number: LA0004847

Facility Description: Produces phosphoric acid | SIC Code: 2874

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	√	√	-	√

Abstract Information:
Partial; 001 (representing 002), 102 (representing 202 and 302), 402, 502, 003, 004, and 105 (representing 205 and 305)

Outfall: 001 | Receiving Water: Mississippi River | Treatment: Not described

Amount/Components:
165.3 MGD of once-through cooling water, scrubber water and fertilizer area nonprocess wastewater

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chronic WET	N/A Report	N/A N/A	See below	1/month	24hr fw composite
Fl	165.000000 N/A	222.800000 N/A	Units: 1000lb/d,see below	3/week	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
P (T)	15000.000000 lb/d N/A	34200.000000 lb/d N/A	See below	3/week	24hr fw composite
Radium (226)	N/A N/A	N/A N/A	See below	1/month	monthly composite
SO4	Report lb/d N/A	Report lb/d N/A	See below	3/week	24hr fw composite
Temp.	N/A Report F	N/A Report F		continuous	record
TSS	Report lb/d N/A	Report lb/d N/A	See below	3/week	24hr fw composite

Limitations/Monitoring Basis:
These limits represent the limits for the combined discharges from Outfalls 001 and 002. Effluent limitations and monitoring requirements are continued from the previous permit. The fluoride limits (Fl) which were based on 40 CFR Part 122.44(a) because the ELGs at 40 CFR Part 418.13 were rescinded for phosphoric acid plants located in the Mississippi River southern delta, and P (T) limitations were based on "Swift Tower flouride collection at the evaporators." However, the Swift Towers have reduced the P (T) daily avg. to less than 15,000 lb/d and this has been established as a permit limit based on BPJ. The mass discharge for flouride, P (T), TSS, and SO4 Outfalls 001 (and 002) can be calculated by subtracting the each parameter's mass as contributed from Outfalls 003 and 004 from the combined outfall mass. The daily avg. and daily max. P (T) contributions solely from the loading and unloading dock must also be reported. Quarterly avg. Ra (226) is the avg. of the monthly composite is the fw composite of at least 4 representative 24hr fw composites; this has been changed from an annual avg. limit to a quarterly avg. limit as per the facility's request. The quarterly average limit is 0.0032 curie/day. pH is not regulated pursuant to an FDF variance. Chronic WET testing must be conducted on the fw sample from Outfalls 001, 002, and 003. Testing must be conducted in accordance with specific EPA guidance manual procedures; the permit specifies that 5 dilutions (one representing low flow conditions), 2 species, and 6 endpoints. Retesting must be conducted within 15 days where toxicity is demonstrated. Reporting forms for chronic WET tests are provided.

Outfall: 003 | Receiving Water: Mississippi River | Treatment: Not described

Amount/Components:
0.396 MGD of active CaSO4 storage pile water and contaminated nonprocess fertilizer area wastewater

Parameter	Limitations: Daily Average	Limitations: Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chronic WET	N/A Report	N/A N/A	See below	1/month	24hr fw composite

Facility Name: Agrico Chemical Company | Permit Number: LA0004847

Facility Description: Produces phosphoric acid | SIC Code: 2874

Fl	Report lb/d 25.000000 mg/l	Report lb/d 75.000000 mg/l		3/week	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
P (T)	Report lb/d 35.000000 mg/l	Report lb/d 105.000000 mg/l		3/week	24hr fw composite
pH	N/A N/A	N/A N/A	See below	continuous	record

Limitations/Monitoring Basis:
Effluent limitations and monitoring requirements are incorporated from the previous permit. ELGs contained in 40 CFR Part 418 were rescinded for southern Louisiana producers. However, the ELG technology has been applied based on BPJ, specifically limiting process discharges to only those resulting from surges caused by a 25yr, 24hr rainfall event. Tiered P (T) limits must be calculated based on 4 tiers of receiving stream low flow and equations provided in the permit in order to generate a WQ-based limit for combined discharges of P (T) from Outfalls 003 and 004. Violations of daily max. P (T) are to be reported orally within 24 hours. pH limitationsand excursions are discussed at Outfall 102.

Outfall: 004 | Receiving Water: Mississippi River | Treatment: Not described

Amount/Components:
4.032 MGD of inactive CaSO4 storage pile excess storm drainage

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Ag (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Al (T)	Report mg/l Report mg/l	Report mg/l Report mg/l		1/week	24hr fw composite
Alpha (T)	Report Report	Report Report	See below	1/month	24hr fw composite
As (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Be (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Cd (T)	Report mg/l Report mg/l	Report mg/l Report mg/l		1/month	24hr fw composite
Chronic WET	Report N/A	N/A N/A	See below	1/month	24hr fw composite
Cr (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Cu (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Fl	Report lb/d Report mg/l	Report lb/d Report mg/l		3/week	24hr fw composite
Flow	Report MGD N/A	Report MGD N/A		continuous	record
Hg (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Ni (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
P (T)	Report lb/d Report mg/l	Report lb/d Report mg/l	See below	3/week	24hr fw composite
Pb (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite

Facility Name: Agrico Chemical Company | Permit Number: LA0004847

Facility Description: Produces phosphoric acid | SIC Code: 2874

pH	Report su N/A	Report su N/A	See below	continuous	record
Radium (226)	Report 0.400000	Report 0.500000	See below	1/month	24hr fw composite
Sb (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Se (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
SO4	Report lb/d Report lb/d	Report lb/d Report lb/d		3/week	24hr fw composite
Tl (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
TSS	Report lb/d Report mg/l	Report lb/d Report mg/l		3/week	24hr fw composite
U (T)	Report lb/d Report mg/l	Report lb/d Report mg/l	See below	1/week	24hr fw composite
Zn (T)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite

Limitations/Monitoring Basis:
Tiered P (T) limits must be calculated based on 4 tiers of receiving stream low flow and equations provided in the permit in order to generate a WQ-based limit for combined discharges of P (T) from Outfalls 003 and 004; the number of exceedances is limited to 0 (daily max.) and must also be reported as a daily avg. Compliance with an annual avg. P (T) limit of 3,600,000 lb/year is required by January 1, 1994; this limit represents the facility's pledged goal of 75% reduction in P (T) discharges. Analytical procedures for measuring U (T), Ra (226) and gross alpha particle activity [alpha (T)] are also specified in the permit. Units are pCi/day (mass) and pCi/ml (concentration). Toxic priority metals are specified in the permit as consisting of the total form of Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, and Zn. Compliance determinations are based on the MDLs provided in the permit. pH limits are not set forth; the permittee is required isto report instantaneous minimum and maximum each month. However, within 180 days of abatement completion, the facility must submit a report which specifies achievable limitations. Chronic WET monitoring is required because pollutants present in the effluent may cause toxicity in the receiving waters and WET is the most direct measure of potential toxicity. These conditions are set forth to prevent violations of CWA Section 303. Chronic WET tests must include the previous months' highest weekly avg. % contribution of Outfall 004 discharge in the sample to be analyzed; data supporting this % must be included in the submittal of WET testing results. Chronic WET testing limits is the same as discussed at Outfall 001. Additional monitoring and reporting for 004 specifiy that river flow data must be obtained from USGS for each day and reported as an attachment to DMRs; the min. river flow must be reported on the DMRs. A discussion of the bases of the monitoring requirements and Ra (226) limits were not provided.

Outfall: 102 | Receiving Water: Internal to outfall 002 | Treatment: Not described

Amount/Components:
20.048 MGD of primarily noncontact cooling water with some boiler feed wastes

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report MGD	N/A Report MGD		continuous	record
pH	N/A N/A	N/A N/A	See below	contiuous	record
Temp.	N/A Report F	N/A Report F		contiuous	record

Limitations/Monitoring Basis:
Limitations and monitoring conditions are incorporated from the previous permit. pH excursions are limited to 446 minutes/month and no excursions may exceed a duration of 60 minutes. pH limits are specified as 6.0 su instantaneous minimum and 9.0 su instantaneous maximum.

Facility Name: Agrico Chemical Company | Permit Number: LA0004847

Facility Description: Produces phosphoric acid | SIC Code: 2874

Outfall: 105 | Receiving Water: Ditch to Bayou des Acadiens | Treatment: Not described

Amount/Components:
noncontaminated storm water

Parameter	Limitations: Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
COD	N/A N/A	N/A 100.000000 mg/l		1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/week	estimate
O&G	N/A N/A	N/A 15.000000 mg/l		1/month	grab
pH	N/A N/A	N/A N/A	See below	1/month	grab

Limitations/Monitoring Basis:
Requirements are based on the "standard storm water requirements" developed by the state and EPA Region 6. pH limits are specified as 6.0 su instantaneous minimum and 9.0 su instantaneous maximum.

Outfall: 402 | Receiving Water: Internal to outfall 002 | Treatment: Not described

Amount/Components:
0.173 MGD of clarifier underflow

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Clarifying agents	Report lb/d N/A	Report lb/d N/A		1/week	estimate
Flow	N/A Report MGD	N/A Report MGD		1/week	estimate

Limitations/Monitoring Basis:
Monitoring requirements are based on the Lower Mississippi River Silt Policy which stipulates that the reporting of flow and the average amount of clarifying agents used.

Outfall: 502 | Receiving Water: Internal to outfall 002 | Treatment: Not described

Amount/Components:
0.086 MGD of treated sanitary sewage

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A 30.000000 mg/l	N/A 45.000000 mg/l		1/month	grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml;see below	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/week	estimate
pH	N/A N/A	N/A N/A	See below	1/month	grab

Facility Name: Agrico Chemical Company | Permit Number: LA0004847

Facility Description: Produces phosphoric acid | SIC Code: 2874

TSS	N/A 30.000000 mg/l	N/A 45.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:

Limitations, except FC, are incorporated from the previous permit. Stat defined FC limitations are also included; the basis of these limitations was not described. The FC limits will become effective upon completion of modification to the package treatment plant. The basis of the monitoring requirements was not described. pH limits are specified as 6.0 su instantaneous minimum and 9.0 su instantaneous maximum.

Special Conditions Basis:

Two BMPs plans are required: (1) a BMP plan developed by the permittee to mitigate shipping and handling pollutant must comply with 40 CFR Part 125, Subpart K and be submitted to EPA Region 6 and the State within 60 days; and (2) a BMP plan developed by the permittee to address solvent recovery from the uranium extraction process (referred to as the FURC plant) must maximize solvent recovery to thereby minimize losses to the gypsum stack. This BMP plan must be updated annually and be submitted to EPA Region 6 and the State. Additionally, quarterly reports must be submitted over the 240 days estimated to complete a storm water reuse plan at the FURC plant. The BMP plan is set forth to regulate the discharge of these pollutants. The facility has committed to the State to reduce by 75% the discharge of pollutants from inactive gypsum stacks. A plan which involves segregating active and inactive pile areas, recycling runoff within the active piles because of the high SW pollutant concentrations, and abating areas within the inactive pile areas was developed. Plan implementation is currently underway and is expected to be completed within 2 years under ideal conditions or 3 years under wet weather conditions; the permit thus requires the affected areas to comply with discharge restrictions which generally apply to Outfall 004 and Outfall 004 P (T) limitations by 12/31/93 (within 3 years). Quarterly reports from 10/92 to 1/94 are required as part of the compliance schedule. Upon completion of the abatement program, periodic inspections must be conducted of specifically cited areas. Where problems are noted, they must be reported within 15 days and corrected within 30 days; a plan must be submitted for problems requiring more than 30 days for correction. Where toxicity is demonstrated in 2 consecutive WET tests, the facility is required to develop and submit, within 30 days, a plan for the conduct of a TRE. Minimum elements of the plan include a description of the specific approach, methodology, and date of TRE initiation. TRE requirements are in accordance with the typical EPA Region 6 approach. Specific compliance threshold levels have been established for pollutants. Analytical methods must detect to the level of the compliance threshold. For reporting purposes, zero should be used when analytical results are below the threshold. Other special conditions include: (1) a listing of CAS and STORET numbers; (2) requirements to orally report daily max. violations of P (T) at Outfalls 003 and 004; (3) specific VOA sampling and compositing methods; (4) preparing and submitting a monthly summary along withDMRs of specific information at P (T) discharges at Outfalls 003 and 004; (5) where changes in the source of rock ore occur, analyzing the rock for the Outfall 004 regulating pollutants; and (6) miscellaneous definitions, explanations, and related information. Other than discussed above, the bases of these special conditions were not described.

Effective Date: 10/12/92 | Expiration Date: 10/11/97 | Abstract Date: 05/18/93

Facility Name: Neste Resins Corporation	Permit Number: LA0007501
Facility Description: Resin manufacturer	SIC Code: 2821

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	-	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	√	-	√

Abstract Information:
Complete; Outfalls 001 and 002.

Outfall: 001 | Receiving Water: Brushy Creek | Treatment: Stab, AnL, Aer, Sed

Amount/Components:
0.0319 MGD of treated kettle rinse water, contaminated storm water, misc. blowdown, condensate, and demineralizer and sanitary wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	0.002490 lb/d N/A	0.006400 N/A		1/year	24hr fw composite
1,1,2-Trichloroethane	0.002490 lb/d N/A	0.006400 lb/d N/A		1/year	24hr fw composite
1,1-Dichloroethane	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
1,1-Dichloroethylene	0.000380 lb/d 0.370000 ug/l	0.000600 lb/d 0.580000 ug/l		1/year	24hr fw composite
1,2,4-Trichlorobenzene	0.008050 lb/d N/A	0.016580 lb/d N/A		1/year	24hr fw composite
1,2-Dichlorobenzene	0.009120 lb/d N/A	0.019300 lb/d N/A		1/year	24hr fw composite
1,2-Dichloroethane	0.002260 lb/d 2.190000 ug/l	0.007010 lb/d 6.800000 ug/l		1/year	24hr fw composite
1,2-Dichloropropane	0.018120 lb/d N/A	0.027240 lb/d N/A		1/year	24hr fw composite
1,2-Trans-Dichloroethylene	0.002490 lb/d N/A	0.006400 lb/d N/A		1/year	24hr fw composite
1,3-Cis-Dichloropropylene	0.002040 lb/d 1.980000 ug/l	0.003090 lb/d 3.000000 ug/l		1/year	24hr fw composite
1,3-Dichlorobenzene	0.003670 lb/d N/A	0.005210 lb/d N/A		1/year	24hr fw composite
1,4-Dichlorobenzene	0.001780 lb/d N/A	0.003320 lb/d N/A		1/year	24hr fw composite
2,4-Dichlorophenol	0.004620 lb/d N/A	0.013260 lb/d N/A		1/year	24hr fw composite
2,4-Dimethylphenol	0.002130 lb/d N/A	0.004260 lb/d N/A		1/year	24hr fw composite
2,4-Dinitrophenol	0.008410 lb/d N/A	0.014570 lb/d N/A		1/year	24hr fw composite
2,4-Dinitrotoluene	0.013380 lb/d N/A	0.033750 lb/d N/A		1/year	24hr fw composite
2,6-Dinitrotoluene	0.030200 lb/d N/A	0.075910 lb/d N/A		1/year	24hr fw composite
2-Chlorophenol	0.003670 lb/d N/A	0.011610 lb/d N/A		1/year	24hr fw composite

Facility Name: Neste Resins Corporation | Permit Number: LA0007501

Facility Description: Resin manufacturer | SIC Code: 2821

2-Nitrophenol	0.004860 lb/d N/A	0.008170 lb/d N/A		1/year	24hr fw composite
3,4-Benzofluoranthene	0.002720 lb/d N/A	0.007220 lb/d N/A		1/year	24hr fw composite
4,6-Dinitro-o-cresol	0.009240 lb/d N/A	0.032800 lb/d N/A		1/year	24hr fw composite
4-Nitrophenol	0.008530 lb/d N/A	0.014690 lb/d N/A		1/year	24hr fw composite
Acenaphthene	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
Acenaphthylene	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
Acrylonitrile	0.011370 lb/d N/A	0.028660 lb/d N/A		1/year	24hr fw composite
Anthracene	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
Benzene	0.003500 lb/d 3.400000 ug/l	0.012880 lb/d 12.500000 ug/l		1/year	24hr fw composite
Benzo (a) anthracene	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
Benzo (a) pyrene	0.002720 lb/d N/A	0.007220 lb/d N/A		1/year	24hr fw composite
Benzo (k) fluoranthane	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
Bis (2-ethylhexyl) phthalate	0.012200 lb/d N/A	0.033040 lb/d N/A		1/year	24hr fw composite
BOD5	10.000000 lb/d N/A	20.000000 lb/d N/A		1/week	24hr fw composite
Carbon tetrachloride	0.000580 lb/d 0.570000 ug/l	0.001240 lb/d 1.200000 ug/l		1/year	24hr fw composite
Chlorobenzene	0.001780 lb/d N/A	0.003320 lb/d N/A		1/year	24hr fw composite
Chloroethane	0.012320 lb/d N/A	0.031740 lb/d N/A		1/year	24hr fw composite
Chloroform	0.002490 lb/d N/A	0.005450 lb/d N/A		1/year	24hr fw composite
Chrysene	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
COD	50.000000 lb/d N/A	100.000000 lb/d N/A		2/week	24hr fw composite
Cu (T)	0.003130 lb/d 3.040000 ug/l	0.007290 lb/d 7.080000 ug/l		1/month	24hr fw composite
Di-n-butyl phthalate	0.003200 lb/d N/A	0.006750 lb/d N/A		1/year	24hr fw composite
Diethyl phthalate	0.009590 lb/d N/A	0.024040 lb/d N/A		1/year	24hr fw composite
Dimethyl phthalate	0.002250 lb/d N/A	0.005570 lb/d N/A		1/year	24hr fw composite
Ethylbenzene	0.003790 lb/d N/A	0.012790 lb/d N/A		1/year	24hr fw composite

Facility Name: Neste Resins Corporation | Permit Number: LA0007501

Facility Description: Resin manufacturer | SIC Code: 2821

Flow	N/A Report MGD	N/A Report MGD		continuous	record
Fluoranthene	0.002960 lb/d N/A	0.008050 lb/d N/A		1/year	24hr fw composite
Fluorene	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
Hexachlorobenzene	N/A 0.000130 ug/l	N/A 0.000240 ug/l	See below	1/year	24hr fw composite
Hexachlorobutadiene	N/A 0.045000 ug/l	N/A 0.110000 ug/l	See below	1/year	24hr fw composite
Hexachloroethane	0.002490 lb/d N/A	0.006400 lb/d N/A		1/year	24hr fw composite
Methyl chloride	0.010180 lb/d N/A	0.022500 lb/d N/A		1/year	24hr fw composite
Methylene chloride	0.004740 lb/d N/A	0.010540 lb/d N/A		1/year	24hr fw composite
Naphthalene	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
Nitrobenzene	0.003200 lb/d N/A	0.008050 lb/d N/A		1/year	24hr fw composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Phenanthrene	0.002610 lb/d N/A	0.006990 lb/d N/A		1/year	24hr fw composite
Phenol	0.001780 lb/d N/A	0.003080 lb/d N/A		1/year	24hr fw composite
Phenols	0.025770 lb/d 25.000000 ug/l	0.051540 lb/d 50.000000 ug/l		2/week	24hr fw composite
Pyrene	0.002960 lb/d N/A	0.007930 lb/d N/A		1/year	24hr fw composite
Temp.	N/A N/A	N/A 100.000000 F		1/day	grab
Tetrachloroethylene	0.001010 lb/d 0.980000 ug/l	0.002580 lb/d 2.500000 ug/l		1/year	24hr fw composite
TKN	20.000000 lb/d N/A	40.000000 lb/d N/A		2/week	24hr fw composite
Toluene	0.003080 lb/d N/A	0.009470 lb/d N/A		1/year	24hr fw composite
Trichloroethylene	0.002490 lb/d N/A	0.006400 lb/d N/A		1/year	24hr fw composite
TSS	10.000000 lb/d N/A	20.000000 lb/d N/A		2/week	24hr fw composite
Vinyl chloride	0.012320 lb/d N/A	0.031740 lb/d N/A		1/year	24hr fw composite
Zn (T)	0.024430 lb/d 23.700000 ug/l	0.060730 lb/d 58.910000 ug/l		1/month	24hr fw composite

Limitations/Monitoring Basis:
In calculating limits for BOD5 and TSS, average and maximum allocations were allotted of 10/20 mg/l BOD 5 and 20/40 mg/l TSS for utility wastewaters and 30/45 mg/l BOD5 and TSS for sanitary wastewater. These allocations were based on BPJ and were added to the ELG-based BOD5 and TSS loadings calculated in accordance with the OCPSF category (40 CFR Part 414, Subpart I). pH limits are ELG-based. Organic chemicals limits, other than discussed below, are ELG-based consistent with the 40 CFR Part 414, Subpart E; the facility is not subject to any CN- or metal-bearing wastestreams. COD, TKN, temp limits have been retained from the previous permit; their basis was not discussed.

Facility Name: Neste Resins Corporation | Permit Number: LA0007501

Facility Description: Resin manufacturer | SIC Code: 2821

Limits for Cu (T), Zn (T), phenols, benzene, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, 1,3-dichloropropylene, methyl chloride, methylene chloride, tetrachloroethylene, 1,1,2-trichloroethane, trichloroethylene, vinyl chloride, hexachlorobenzene, and hexachlorobutadiene were indicated as WQ-based; however, the more stringent WQ-based limits methyl chloride, methylene chloride, trichloroethylene, and viyl chloride were not imposed in the permit. Concentration limits for hexachlorobenzene and hexachlorobutadiene were too small to appear in this table. Cu (T), Zn (T), and phenols limits become effective 3 years from the permit's effective date. BOD 5, COD, TSS, TKN, temp., and pH monitoring requirements are retained from the previous permits. Monitoring at 1/year is established per requirements under 40 CFR 122.44(i)(2); 1/year has been established since the pollutants are not associated with the product/processes employed at the facility or are not expected to be present above detection limits. Phenols testing has been established at 2/week consistent with the previous permit. Cu and Zn monitoring frequency are based on State WQSs. The basis of the remaining monitoring conditions was not described.

Outfall: 002 | Receiving Water: Brushy Creek | Treatment: Not specified.

Amount/Components:
0.0917 MGD of once through cooling water and uncontaminated storm water runoff.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report MGD	N/A Report MGD		5/week	estimate
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Phenols	N/A N/A	N/A 0.100000 mg/l		2/week	grab
Temp.	N/A Report F	N/A Report F		5/week	grab
TKN	N/A N/A	N/A 3.000000 mg/l		2/week	grab

Limitations/Monitoring Basis:
TKN, phenols, temp., and pH limits and monitoring requirements were maintained from the previous permit pursuant to 40 CFR 122.44 (1). Limits were judged by the permit writer to represent BCT/BAT.

Special Conditions Basis:
Compliance schedule is set forth for phenols, Cu (T), and Zn (T) which requires compliance within 3 years and semi-annual progress reports. Specific compliance threshold levels have been established for pollutants. Analytical methods must detect to the level of the compliance threshold. For reporting purposes, zero should be used when analytical results are below the threshold. The permit specifies the minimum quantitation levels (MQLs) and EPA method for parameters with limits at or below MQLs. Other special conditions include specific VOA sampling and compositing methods and miscellaneous definitions, explanations, and related information. Other than discussed above, the bases of these special conditions were not described.

Effective Date: 10/26/92 | Expiration Date: 10/25/97 | Abstract Date: 05/27/93

Facility Name: Louisiana P&L, Sterlington | Permit Number: LA0007579

Facility Description: Steam electric power plant. | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	√	√	√

Abstract Information:
Partial; Outfalls 02A, 003, 005 (representing 004 and 006), and 05a

Outfall: 003 | Receiving Water: Ouachita River | Treatment: Not described.

Amount/Components:
Typically no discharge of once through cooling water from Unit 6.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chronic WET	N/A N/A	N/A N/A	See below	1/quarter	24hr fw composite
Flow	N/A Report MGD	N/A 159.000000 MGD		continuous	record
Temp.	N/A 112.000000 F	N/A N/A	115F inst. max; see below	continuous	record
TRC	N/A N/A	22.100000 lb/d 0.200000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:
The flow limit is based on the permit application. Temp. limits are based on State water quality standards. The intake temperature must also be monitored. TRC limitiations are ELG-based consistent with steam electric generating guidelines (40 CFR Part 423) and the past permit. TRC may not be discharged from any single unit for more than 2 hrs/day; simultaneous chlorination is permitted. The daily avg. temp must be determined by measuring temp. at 2hr intervals and taking the sum of {the instantaneous flow times the instantaneous temperature}, divided by the sum of the instantaneous flow. Chronic WET testing must be conducted with 2 species in accordance with EPA guidance, and results reported on specified forms. The tests are to be initiated within 15 days of restarting Unit 6. Retesting within 30 days must be conducted where toxicity is demonstrated. All monitoring requirements are based on the past permit.

Outfall: 005 | Receiving Water: Unnamed ditch to Ouachita Rive | Treatment: Not described.

Amount/Components:
0.24 MGD of low volume, oily wastes, and previously monitored wastes.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/day	estimate
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l		1/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
Limitations are ELG-based consistent with steam electric generating guidelines (40 CFR Part 423) and the past permit. Monitoring requirements are based on the past permit.

Facility Name: Louisiana P&L, Sterlington | Permit Number: LA0007579

Facility Description: Steam electric power plant. | SIC Code: 4931

Outfall: 02A | Receiving Water: Ouachita River | Treatment: Not described.

Amount/Components:
0.6 MGD of Unit 7 cooling tower blowdown.

Parameter	Limitations			Monitoring Requirements	
	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A N/A	See below	1/month	24hr fw composite
Cr	N/A 0.200000 mg/l	N/A 0.200000 mg/l		1/week	grab
Cu	0.413000 lb/d 82.000000 ug/l	0.827000 lb/d 165.000000 ug/l		1/week	grab
FAC	N/A 0.200000 mg/l	N/A 0.500000 mg/l	See below	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	estimate
Hg	0.007640 lb/d 1.520000 ug/l	0.015280 lb/d 3.050000 ug/l		1/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
Priority pollutants	N/A N/A	N/A N/A	See below		
Temp.	N/A Report F	N/A Report F	See below	1/week	in situ
Zn	2.820000 lb/d 563.000000 ug/l	5.040000 lb/d 1000.000000 ug/l		1/week	grab

Limitations/Monitoring Basis:
FAC, Cr (T), and pH limits are ELG-based consistent with the steam electric generating guidelines (40 CFR Part 423) and the past permit. If cooling tower maintenance chemicals are used, the priority pollutants are limited to no detectable amount (except for the allotted Cu (T) and Zn (T)) as determined by engineering calculations; the basis for these limitations is not described. The method for determining the daily avg. temp. is as described at Outfall 003. Acute WET monitoring must be conducted with 2 species in accordance with EPA guidance, and results reported on a specified form. Testing must be initiated within 60 days of permit issuance; retesting within 30 days must be conducted where toxicity is demonstrated. Cu (T), Zn (T), and Hg (T) limits are based on State WQS as calculated using TSD methodologies. All monitoring requirements are based on the past permit. FAC samples must be taken during periods of chlorination.

Outfall: 05A | Receiving Water: Internal to outfall 005 | Treatment: Not described.

Amount/Components:
0.03 MGD of chemical metal cleaning waste.

Parameter	Limitations			Monitoring Requirements	
	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Cu	N/A 1.000000 mg/l	N/A 1.000000 mg/l		1/week	grab
Fe	N/A 1.000000 mg/l	N/A 1.000000 mg/l		1/week	grab

Facility Name: Louisiana P&L, Sterlington					Permit Number: LA0007579
Facility Description: Steam electric power plant.					SIC Code: 4931
Flow	N/A Report MGD	N/A Report MGD		1/day	estimate

Limitations/Monitoring Basis:
Limitations are ELG-based consistent with the steam electric generating guidelines (40 CFR Part 423) and the past permit. Monitoring requirements are based on the past permit. Iron and copper monitoring required only when discharging.

Special Conditions Basis:
Where toxicity is demonstrated in two consecutive samples, the facility is required to develop and submit, within 30 days, a plan for the conduct of a TRE. Minimum elements of the plan include a description of the specific approach, methodology, and date of TRE initiation. TRE requirements are consistent with the EPA Region 6 approach. Specific compliance threshold levels have been established for As (T), Cd (T), Cr+3, Cr+6, Cu (T), Pb (T), Hg (T), Ni (T), and Zn (T). Analytical methods must detect to the level of the compliance threshold. For reporting purposes, zero should be used when analytical results are below the threshold. Other special conditions inlcude influent temperature monitoring as described in Outfall 003 above, requirements for monitoring by 40 CFR Part 136 approved analytical methods, listings of Storet and CAS numbers, and requirements to comply withSection 316(b) of the CWA.

Effective Date: 11/01/92 Expiration Date: N/A Abstract Date: 04/14/93

Facility Name: Boston Edison Company | Permit Number: MA0003557

Facility Description: Steam electric power generator | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	-	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	√	√

Abstract Information:
Partial; Outfalls 001, 002, 003, 004 (representative of 005, 006, and 007), 010, and 011

Outfall: 001 | Receiving Water: Cape Cod Bay | Treatment: None

Amount/Components:
447 MGD of condenser cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Boron (B)	N/A N/A	N/A Report	See below	not given	not given
Flow	N/A 447.000000 MGD	N/A 510.000000 MGD		Continuous	Estimate
pH	N/A N/A	N/A Report	See below	Continuous	not given
Sodium Nitrite	N/A N/A	N/A Report	See below	not given	not given
Temp.	N/A N/A	N/A 102.000000	Units: degrees Farenheit	Continuous	not given
TROs	N/A 0.100000 mg/l	N/A 0.100000 mg/l		When in use	Grab

Limitations/Monitoring Basis:
The water quality-based pH limit requires that pH may not vary more than 0.5 su from that of the intake water (pH monitoring frequency was not specified). The difference in temperature between the discharge and the intake shall not exceed a daily maximum of 32 degrees Farenheit. Sodium borate may not exceed 1.0 mg/l above bcakground (by calculation) from Outfall 001, and 16,500 mg/l in each 20,000 gallon batch of discharge sodium pentaborate. Sodium nitrite may not exceed 2.0 mg/l (by calculation) at the point of discharge, before mixing with the Bay water. The number of gallons of sodium nitrite released, concentration, and calculated concentration before mixing must be monitored and reported. The rate of temperature change from Outfall 001 may not exceed 1) 3 degrees Farenheit for any 60 minute period during normal steady state plant operation and 2) a 10 degree change for any 60 minute period during normal loading cycling. Variation in the inlet temperature shall not be considered as an operational rise or fall in temperature. Normal startup temperature rise may not exceed specifiedpermit limits (except in the event of an emergency reactor shutdown). Thermal plumes from the station 1) may not deleteriously interfere with the natural movements, reproductive cycles, or migratory pathways for the indigenous water body populations, and 2) shall have minimal contact with the surrounding shorelines. Narrative water quality based standards require that discharges may not jeopardize any Class SA use of Cape Cod Bay, nor violate water quality standards. State water quality policy forms the basis for narrative effluent limits for all outfalls including a prohibition against floating, suspended and settleable solids or visible sheen or foam that would cause aesthetically objectional conditions or impair any assigned use of the receivinf water. Fungicides and slimicides containing trichlorophenol or pentochlorophenol may not be used in the manufacturing process. PCBs and treated or untreated chemicals containing heavy metals from cleaning condensers or equipment are prohibited from the discharge. Materials or concentrations or combinations which are toxic or hazardous to aquatic life are prohibited. The Nuclear Regulatory Commission has authority over operational limits and facility operating license DPR-35.

Outfall: 002 | Receiving Water: Cape Cod Bay | Treatment: None

Amount/Components:
65 MGD thermal backwash for bio-fouling control.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A 255.000000 MGD	See below	When in use	Estimate

Facility Name: Boston Edison Company | Permit Number: MA0003557

Facility Description: Steam electric power generator | SIC Code: 4931

pH	N/A N/A	N/A Report	See below	not given	not given
Temp.	N/A N/A	N/A 120.000000	Units: degrees Fahrenheit	Continuous	

Limitations/Monitoring Basis:
The water quality-based pH limit requires that pH may not vary more than 0.5 su from that of the intake water (pH monitoring frequency was not specified). The difference in temperature between the discharge and the intake shall not exceed a daily maximum of 32 degrees Farenheit. The flow is estimated as if backflushing took place for 24 continuous hours, and flow is allowed 3 hours per day twice a week (4 times a week if necessary due to"environmental conditions." Narrative water quality based standards require that discharges may not jeopardize any Class SA use of Cape Cod Bay, nor violate water quality standards. State water quality policy forms the basis for narrative effluent limits for all outfalls including a prohibition against floating, suspended and settleable solids or visible sheen or foam that would cause aesthetically objectional conditions or impair any assigned used of the receiving water. However, when condenser leaks occur, the use of a reasonable amount of biodegradable and nontoxic material may be used to the extent necessary to find and/or seal the leak.Fungicides and slimicides containing trichlorophenol or pentachlorophenol may not be used in the manufacturing process. PCBs and treated or untreated chemicals containing heavy metals from cleaning condensers or equipment are prohibited from the discharge. Materials or concentrations or combinations that are toxic or hazardous to aquatic life are prohibited. The Nuclear Regulatory Commission has authority over operational requirements, radionuclide discharge limits, and facility operating license DPR-35.

Outfall: 003 | Receiving Water: Cape Cod Bay | Treatment: None

Amount/Components:
2.0 MGD intake screen wash.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A 2.100000 MGD	N/A 2.100000 MGD	See below	1/day	Estimate
pH	N/A N/A	N/A Report	See below	Continuous	Grab

Limitations/Monitoring Basis:
The water quality-based pH limit requires that pH may not vary more than 0.5 su from that of the intake water (pH monitoring frequency was not specified). The difference in temperature between the discharge and the intake shall not exceed a daily maximum of 32 degrees Farenheit. The flow must be estimated from pump curves and operational hours.Narrative water quality based standards require that discharges may not jeopardize any Class SA use of Cape Cod Bay, nor violate water quality standards. State water quality policy forms the basis for narrative effluent limits for all outfalls including a prohibition against floating, suspended and settleable solids or visible sheen or foam that would cause aesthetically objectional conditions or impair any assigned used of the receiving water.

Outfall: 004 | Receiving Water: Cape Cod Bay | Treatment: None

Amount/Components:
Unspecified amount of stormwater runoff.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
O&G	N/A N/A	N/A 15.000000 mg/l		2/year	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 8.5 su		
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		2/year	Grab

Limitations/Monitoring Basis:
See limitations/monitoring basis discussion for Outfall 001.

Facility Name: Boston Edison Company | Permit Number: MA0003557

Facility Description: Steam electric power generator | SIC Code: 4931

Outfall: 010 | Receiving Water: Cape Cod Bay | Treatment: Cooling towers

Amount/Components:
17.4 MGD of plant service cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A 19.400000 MGD	N/A N/A		Continuous	Continuous
TROs	N/A 0.500000 mg/l	N/A 1.000000 mg/l	See below	Continuous	Continuous

Limitations/Monitoring Basis:
The flow must be estimated from pump curves and operational hours. The permittee is not allowed to discharge any pollutants except chlorine (limited as TRO based on water quality standards). If continuous chlorination is used to control macroinvertebrates, the TRO daily maximum is 1.0 mg/l and the average daily limit is 0.50 mg/l in the service water discharge prior to mixing with any other streams. Narrative water quality based standards require that discharges may not jeopardize any Class SA use of Cape Cod Bay, nor violate WQSs. State water quality policy forms the basis for narrative effluent limits for all outfalls including a prohibition against floating, suspended and settleable solids or visible sheen or foam that would cause aesthetically objectional conditions or impair any assigned use of the receiving water. Fungicides and slimicides containing trichlorophenol or pentachlorophenol may not be used in the manufacturing process. PCBs and treated or untreated chemicals containing heavy metals from cleaning condensers or equipment are prohibited from the discharge. Materials or concentrations or combinations which are toxic or hazardous to aquatic life are prohibited. The Nuclear Regulatory Commission has authority over operational requirements, radionuclide discharge limits, and facility operating license DPR-35.

Outfall: 011 | Receiving Water: Cape Cod Bay | Treatment: None

Amount/Components:
0.01 MGD average monthly flow of makeup water and demineralization wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A 0.015000 MGD	N/A 0.060000 MGD	See below	When in use	
pH	N/A N/A	N/A Report	Between 6.1 su and 8 .4 su		
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l	See below	Batch	Grab

Limitations/Monitoring Basis:
See Outfall 001 for discussion of limitations/monitoring basis for flow and pH. The TSS limit is based on ELGs for the steam electric industry, 40 CFR Part 423.

Special Conditions Basis:
The sodium borate concentration in the storage tanks and dilution provided by the circulating water pumps flow must be controlled. To control the sodium pentaborate release, a circulating cooling water pump must be in operation to ensure proper dilution. Sand may be removed from the intake structure when the sand buildup interferes with the rotating screen equipment. A barrier net must be maintained near the terminal end of the discharge canal to prevent fish entry into the canal. If EPA or the State determine that the barrier is not effective in preventing the mortality of menhaden or other finfish, then the permittee must maintain an average dissolvedN saturation level of less than 115% (defined in the permit). Chlorine is the only biocide allowed. The chlorination cycle for the circulating cooling water systems may not exceed two hours per day for each point source, unless it can be demonstrated to EPA that a longer period is necessary to control macroinvertebrates. Continuous chlorination may be used for Outfall 010, if needed to control macroinvertebrates. If continuous monitoring equipment become inoperative, 1/day manual grab samples are allowed. Any fish kill must be reported to EPA. The State and EPA can impose requirements for fish studies. The 1990 Environmental Monitoring Programs and plans approved by the State and EPA are part of this permit. These documents establish environmental monitoring including the following: 1) a technical advisory committee to ensure that marine studies are valid; 2) fish monitoring by the MA Department of Marine Fisheries; 3) impingement rate monitoring for the four travelling intake screens; 4) 2/yr flora and fauna benthic monitoring; and 1/week or 2/week entrainment monitoring focusing on ichthyoplankton. All live fish trapped in intake screens must be returned to the water in an area located outside the thermal plume to prevent impingement. Sluice waters employed in backwashing the intake screens must bedechlorinated before use. The 1990 program also includes thermal discharge fish surveillance activities including the following: 1) overflights to locate and notify the plant of large schools of fish in the vicinity; 2) observation of the discharge canal; and 3) diver inspections of the discharge canal and fish barrier net. The third part of the 1990 program describes the actions taken to

Facility Name: Boston Edison Company		Permit Number: MA0003557
Facility Description: Steam electric power generator		SIC Code: 4931
determine when dissolved nitrogen saturation reduction is necessary to prevent fish kills due to gas bubble disease. If nitrogen saturation reduction is needed, the plant may have to reduce power geration or shutdown.		
Effective Date: 04/29/91	Expiration Date: 04/29/96	Abstract Date: 07/01/93

Facility Name: Worcester Spinning & Finishing | Permit Number: MA0004171

Facility Description: Textile finisher | SIC Code: 2269

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	-	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfall 001

Outfall: 001 | Receiving Water: Kettle Brook | Treatment: EQ, Sed, Neut, Aer

Amount/Components:
65 GPD of treated process and sanitary wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	Composite
Al (TR)	0.390000 lb/d 0.720000 mg/l	3.600000 lb/d 4.300000 mg/l		1/week	composite
BOD5	4.800000 lb/d N/A	13.000000 lb/d N/A	See below	1/week	Composite
COD	120.000000 lb/d N/A	240.000000 lb/d N/A	Influent and effluen t	1/week	Composite
Color	N/A Report	N/A Report	Effluent and river	2/month	Grab
Cu (TR)	0.020000 lb/d 0.020000 mg/l	0.021600 lb/d 0.025300 mg/l		1/week	grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	1/week	Grab
Flow	N/A Report MGD	N/A 0.100000 MGD		Continuous	
NH3-N	0.430000 lb/d 0.800000 mg/l	1.200000 lb/d 1.200000 mg/l		2/month	Composite
O&G	N/A N/A	N/A 15.000000 mg/l		2/month	Grab
P (T)	1.100000 lb/d 2.000000 mg/l	2.400000 lb/d 2.500000 mg/l		1/month	Composite
pH	N/A N/A	N/A Report	Between 6.5 su and 8 .3 su	1/week	Grab
TSS	25.000000 lb/d 46.000000 mg/l	50.000000 lb/d 52.000000 mg/l		1/week	Composite

Limitations/Monitoring Basis:
P limitations are BPJ-based in accordance with Section 402(a)(1) of the CWA and per eutrophication studies in the Gold Book. Both efluent and river color must be reported. WET testing must be performed four times per year using two species. O&G, pH, and FC limitations are ELG-based limitations per State certification requirements pursuant to 40 CFR Part 124.53 Section 401(a)(1). TSS and COD limitations are based on plant performance and antibacksliding provisions. Both influent and effluent must be reported for TSS and COD. The daily maximum shown for BOD5 applies June 1-October 31 and is WQS-based. The monthly average limitation for BOD5 is based on a ratio of 1:1.5 (average: maximum waste load allocation) per established policy. The daily maximum and monthly average BOD5 limitations from November 1-May 31 are based on plant performance and are 26 lb/d DM and 13 lb/d MA. Limitations forAl and Cu are based on National Water Quality Criteria. The NH3-N limitation is based on a total oxygen demand of 25 lbs/d and an ultimate BOD of 13 lbs/d for the receiving water, the facility's maximum flow, and the standard equation used for typical domestic waste. The monthly average limitation for NH3-N is based on a ratio of average:maximum waste load allocations which is based on established policy.

Facility Name: Worcester Spinning & Finishing	Permit Number: MA0004171
Facility Description: Textile finisher	SIC Code: 2269

Special Conditions Basis:

The permitting authority must be notified if any existing maunfacturing, commercial, mining, and silviculture dischargers have reason to believe that a toxic pollutant not limited in the permit may be routinely or frequently discharged at levels that exceed the following notification levels: 100 ug/l; 200 ug/l for acrolein and acrylonitrile; 500 ug/l for 2,4-dinitrophenol and 2-methly-4,6-dinitrophenol; 1 mg/l for antimony; 5 times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR Part 122.44(f). The permitting authority must also be notified if the toxic pollutant is discharged on a non-routineor infrequent basis if that pollutant exceeds the following notification levels: 500 ug/l; 1 mg/l for antimony; 10 times the maximum concentration level reported for that pollutant in the permit application in accordance with 40 CFR Part 122.44(f). A BMP plan shall be developed and implemented which establishes specific objectives for the control of toxic and hazardous pollutants. An SPCC plan may be incorporated into the BMP plan.

Effective Date: 10/30/92	Expiration Date: 10/30/97	Abstract Date: 09/09/93

Facility Name: Strathmore Paper Company | Permit Number: MA0005011

Facility Description: Manufacture nonintegrated specialty papers from cotton and wood pulp | SIC Code: 2679

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	-	-

Abstract Information:
Complete; Outfalls 001 and 003.

Outfall: 001 | Receiving Water: Connecticut River | Treatment: None

Amount/Components:
Unspecified amount of sandfilter backwash from river intake.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD	See below	Continuous	Total
pH	N/A N/A	N/A Report	Between 6.5 su and 8 .3 su	not given	not given
TSS	N/A 30.000000 mg/l	N/A 60.000000 mg/l	See below	1/day	4 grabs

Limitations/Monitoring Basis:
The TSS limit was retained from the previous permit to prevent backsliding per 40 CFR Part 122.44(l). During periods in which the silt load carried by the Connecticut River exceeds 100 mg/l TSS, the effluent may not exceed that of the intake water. Under these circumstances, the permittee must monitor and report TSS of the influent and submit the results with the corresponding DMR. Flow monitoring must be conducted continuously when the facility discharges and TSS must be monitored each day a discharge occurs. A report of no discharge must be submitted when Outfall 001 is not in use. State water quality policy forms the basis for the pH limit. Water quality-based narrative effluent limits include a prohibition against floating, suspended and settleable solids or visible sheen or foam that would cause aesthetically objectional conditions or impair any assigned use of the receiving water. Other monitoring requirements were based on 40 CFR Part 122.44(j), 122.44(i), and 122.48.

Outfall: 003 | Receiving Water: Northeast Utilities Power Cana | Treatment: Neut, ChPt, Microstrain

Amount/Components:
2.17 MGD treated process wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	not given
BOD5	660.000000 lb/d N/A	1320.000000 lb/d N/A		2/week	Composite
Chronic WET	N/A N/A	N/A N/A	See below	1/quarter	not given
Flow	N/A Report MGD	N/A Report MGD		Continuous	Daily total
pH	N/A Report	N/A Report	Between 6.5 su and 8 .3 su	not given	not given

Facility Name: Strathmore Paper Company					Permit Number: MA0005011
Facility Description: Manufacture nonintegrated specialty papers from cotton and wood pulp					SIC Code: 2679
TSS	500.000000 lb/d N/A	1000.000000 lb/d N/A		2/week	Composite

Limitations/Monitoring Basis:
Production-based ELGs were calculated for the BOD and TSS limits per 40 CFR Part 430.180, Subpart R, for the manufacture of about 72 tons per day of nonintegrated cotton specialty papers from cotton and wood pulp. The existing permit limits were established prior to the ELGs. The TSS limit was retained from the previous permit to prevent backsliding per 40 CFR Part 122.44(l). The company provided justification that the BOD limit for this permit should be increased by 20% to account for increased production. Although the limit is less stringent than the previous permit limit, the discharge has low toxicity and a high dilution in the receiving water (0.25% of the flow is from the paper mill treatment plant; the 7Q10 is 1250 cfs). The new limit still meets the ELG. State water quality policy forms the basis for the pH limit. Water quality-based narrative effluent limits include a prohibition against floating, suspended and settleable solids or visible sheen or foam that would cause aesthetically objectional conditions or impair any assigned use of the receiving water. The permit requiresmonitoring of the C-NOEC and LC50 for January, April, July, and October. After a full year of toxicity data, the permittee may request reduced monitoring for WET. WET protocol require use of a freshwater invertebrate and a vertebrate. The permit requires priority pollutant analyses to be performed during the WET testing. The permittee may request that the MA DEP reduce priority pollutant testing requirements after two years provided that data and a written request are submitted. One additional set of WET and priority pollutant analyses must be conducted once per year when worst case conditions exist (as referenced in the Effluent Characterization Studydated January 1990) and submit them separately from the routine WET and priority pollutant analyses. Other monitoring requirements were based on 40 CFR Part 122.44(j), 122.44(i), and 122.48.

Special Conditions Basis:
Fungicides and slimicides containing trichlorophenol or pentachlorophenol may not be used in the manufacturing process. The permittee may not operate more than one paper machine for more than 10 consecutive days of the deep color grade referenced as the worst case condition in the Effluent Characterization Study dated January 1990. Eslecck (one of two paper manufacturers discharging to the Strathnore wastewater treatment plant) and Strathmore must record and maintain off machine production figures and amount of furnish provided. Within 90 days of the permit effective date, the prmittee must develop an alert system to notify the US Fish and Wildlife Laboratory of any discharge which may have an adverse effect on the anadromous fish population inhabiting or migrating through the Turner Falls canal and to reduce, minimize or eliminate the impacts on the anadromous fish population from a process disruption from the Strathmore facility. Prior to the introduction of any dye which is potentially as toxic or more toxic than the dye conditions referenced in the Effluent Characterization Report dated January 1990, the permittee must conduct bench tests to determine the WET. The results must be submitted to USEPA and the State for approval prior to use of the dye. Within 90 days from the permit effective date, a BMP plan containing both narrative and maps, drawings, etc., consistent with the NPDES Best Management Practices Guidance Document is required. Implementation of all aspects of the plan must commence within one year after submittal of the plan to EPA and the State. A BMP report must be submitted annually describing chemicals used onsite, BMP activities, and a discussion on the benefits/results of use of the BMP.

Effective Date: 11/30/86 **Expiration Date:** 11/30/91 **Abstract Date:** 06/02/93

Facility Name: ICI Americas Inc. | Permit Number: MA0005291

Facility Description: Specialty organic chemical manufacturer | SIC Code: 2869

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	-

Abstract Information:
Partial; Outfalls 005 (representative of 007), 006 (representative of 008 and 010), 01s (representative of 02s-09s) and 011a.

Outfall: 005 | Receiving Water: Taunton R./Muddy Cove Brook | Treatment: None

Amount/Components:
0.067 MGD uncontaminated noncontact cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Color	N/A Report	N/A Report	See below	1/quarter	grab
Flow	N/A 0.500000 MGD	N/A 1.000000 MGD		1/month	report daily flow
pH	N/A Report	N/A Report	Between 6.5 SU and 8 .0 SU	1/month	4 grabs report range
Temp.	N/A N/A	N/A 83.000000	Units: degrees faren heit	1/month	4 grabs

Limitations/Monitoring Basis:
Composite samples composed of at least 4 grab samples must be collected 15 minutes apart, commencing during the first hour of a storm event, during normal business hours. Other monitoring requirements were based on 40 CFR Part 122.44(j), 122.44(i), and 122.48. See Outfall 01s for color and pH basis.

Outfall: 006 | Receiving Water: Taunton R./Muddy Cove Brook | Treatment: None

Amount/Components:
0.018 MGD uncontaminated noncontact cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A 0.400000 MGD	N/A 1.500000 MGD		1/month	not given
pH	N/A N/A	N/A Report	Between 6.5 su and 8 .0 su	1/month	4 grabs
Temp.	N/A N/A	N/A 83.000000	Units: degrees Faren heit	1/month	Grab
Zn (TR)	N/A N/A	N/A N/A			

Limitations/Monitoring Basis:
Composite samples composed of at least 4 grab samples must be collected 15 minutes apart, commencing during the first hour of a storm event, during normal business hours. Other monitoring requirements were based on 40 CFR Part 122.44(j), 122.44(i), and 122.48. See Outfall 01s for pH limitations basis.

Facility Name: ICI Americas Inc. | Permit Number: MA0005291

Facility Description: Specialty organic chemical manufacturer | SIC Code: 2869

Outfall: 011A | Receiving Water: Taunton R./Muddy Cove Creek | Treatment: Unspecified biological treatmen

Amount/Components:
0.3 MGD treated wastewater.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	0.040000 lb/d N/A	0.110000 lb/d N/A		1/month	Grab
1,1,2-Trichloroethane	0.040000 lb/d N/A	0.110000 lb/d N/A		1/month	Grab
1,1-Dichloroethane	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Grab
1,1-Dichloroethylene	0.030000 lb/d N/A	0.050000 lb/d N/A		1/month	Grab
1,2,4-Trichlorobenzene	0.140000 lb/d N/A	0.290000 lb/d N/A		1/month	Composite
1,2-Dichlorobenzene	0.160000 lb/d N/A	0.340000 lb/d N/A		1/month	Composite
1,2-Dichloroethane	0.140000 lb/d N/A	0.440000 lb/d N/A		1/month	Grab
1,2-Dichloropropane	0.320000 lb/d N/A	0.480000 lb/d N/A		1/month	Grab
1,2-Trans-Dichloroethylene	0.040000 lb/d N/A	0.110000 lb/d N/A		1/month	Grab
1,3-Dichlorobenzene	0.070000 lb/d N/A	0.090000 lb/d N/A		1/month	Composite
1,3-Dichloropropene	0.060000 lb/d N/A	0.090000 lb/d N/A		1/month	Grab
1,4-Dichlorobenzene	0.030000 lb/d N/A	0.060000 lb/d N/A		1/month	Composite
2,4-Dichlorophenol	0.080000 lb/d N/A	0.230000 lb/d N/A		1/month	Composite
2,4-Dimethylphenol	0.040000 lb/d N/A	0.080000 lb/d N/A		1/month	Composite
2,4-Dinitrophenol	0.150000 lb/d N/A	0.260000 lb/d N/A		1/month	Composite
2,4-Dinitrotoluene	0.240000 lb/d N/A	0.590000 lb/d N/A		1/month	Composite
2,6-Dinitrotoluene	0.530000 lb/d N/A	1.340000 lb/d N/A		1/month	Composite
2-Chlorophenol	0.070000 lb/d N/A	0.200000 lb/d N/A		1/month	Composite
2-Nitrophenol	0.090000 lb/d N/A	0.140000 lb/d N/A		1/month	Composite
3,4-Benzofluoranthene	0.050000 lb/d N/A	0.130000 lb/d N/A		1/month	Composite
4,6-Dinitro-o-cresol	0.160000 lb/d N/A	0.580000 lb/d N/A		1/month	Composite
4-Nitrophenol	0.150000 lb/d N/A	0.260000 lb/d N/A		1/month	Composite

Facility Name: ICI Americas Inc.					Permit Number: MA0005291
Facility Description: Specialty organic chemical manufacturer					SIC Code: 2869
Acenaphthene	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
Acenaphthylene	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
Acrylonitrile	0.200000 lb/d N/A	0.510000 lb/d N/A		1/month	Grab
Acute WET	N/A N/A	N/A Report	See below	1/month	Grab
Anthracene	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
Benzene	0.080000 lb/d N/A	0.280000 lb/d N/A		1/month	Grab
Benzo (a) anthracene	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
Benzo (a) pyrene	0.050000 lb/d N/A	0.130000 lb/d N/A		1/month	Composite
Benzo (k) fluoranthane	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
Bis (2-ethylhexyl) phthalate	0.220000 lb/d N/A	0.580000 lb/d N/A		1/month	Composite
BOD5	94.000000 lb/d N/A	250.000000 lb/d N/A		1/week	Composite
Bromoform	Report lb/d N/A	Report lb/d N/A		1/week	Grab
Carbon tetrachloride	0.040000 lb/d N/A	0.080000 lb/d N/A		1/month	Grab
Chlorobenzene	0.030000 lb/d N/A	0.060000 lb/d N/A		1/month	Grab
Chloroethane	0.220000 lb/d N/A	0.560000 lb/d N/A		1/month	Grab
Chloroform	0.040000 lb/d N/A	0.100000 lb/d N/A		1/month	Grab
Chrysene	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
CN (T)	0.091000 lb/d N/A	0.200000 lb/d N/A		1/week	Grab
Co (T)	2.000000 lb/d N/A	4.000000 lb/d N/A		1/week	Composite
Color	N/A Report	N/A Report		1/week	Grab
Cr (T)	0.890000 lb/d N/A	2.250000 lb/d N/A		1/week	Composite
Cu (T)	N/A N/A	0.570000 lb/d N/A		1/week	Composite
Di-n-butyl phthalate	0.060000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
Diethyl phthalate	0.170000 lb/d N/A	0.420000 lb/d N/A		1/month	Composite
Dimethyl phthalate	0.040000 lb/d N/A	0.100000 lb/d N/A		1/month	Composite

Ethylbenzene	0.070000 lb/d N/A	0.230000 lb/d N/A		1/month	Grab
Fe (T)	3.000000 lb/d N/A	6.000000 lb/d N/A		1/week	Composite
Flow	N/A 0.255000 MGD	N/A 0.300000 MGD		Continuous	Recorder
Fluoranthene	0.050000 lb/d N/A	0.140000 lb/d N/A		1/month	Composite
Fluorene	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
Hexachlorobenzene	0.030000 lb/d N/A	0.060000 lb/d N/A		1/month	Composite
Hexachlorobutadiene	0.040000 lb/d N/A	0.100000 lb/d N/A		1/month	Composite
Hexachloroethane	0.040000 lb/d N/A	0.110000 lb/d N/A		1/month	Composite
Methyl chloride	0.180000 lb/d N/A	0.400000 lb/d N/A		1/month	Grab
Methylene chloride	0.080000 lb/d N/A	0.190000 lb/d N/A		1/month	Grab
Naphthalene	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
NH3-N	120.000000 lb/d N/A	325.000000 lb/d N/A		1/week	Grab
Ni (T)	0.880000 lb/d N/A	1.190000 lb/d N/A		1/week	Composite
Nitrobenzene	0.060000 lb/d N/A	0.140000 lb/d N/A		1/month	Composite
Other	75.000000 lb/d N/A	150.000000 lb/d N/A	Phosphate	1/week	Composite
Pb (T)	0.330000 lb/d N/A	0.450000 lb/d N/A		1/week	Composite
pH	N/A N/A	N/A Report	Between 6.0 su and 8.5 su	Continuous	Report range
Phenanthrene	0.050000 lb/d N/A	0.120000 lb/d N/A		1/month	Composite
Phenol	0.030000 lb/d N/A	0.050000 lb/d N/A		1/month	Composite
Pyrene	0.050000 lb/d N/A	0.140000 lb/d N/A		1/month	Composite
Temp.	N/A Report	N/A Report	Units: degrees Farenheit	1/month	Grab
Tetrachloroethylene	0.040000 lb/d N/A	0.110000 lb/d N/A		1/month	Grab
Toluene	0.050000 lb/d N/A	0.170000 lb/d N/A		1/month	Grab
Trichloroethylene	0.040000 lb/d N/A	0.110000 lb/d N/A		1/month	Grab
TSS	119.000000 lb/d N/A	382.000000 lb/d N/A		1/week	Composite

Facility Name: ICI Americas Inc. | Permit Number: MA0005291

Facility Description: Specialty organic chemical manufacturer | SIC Code: 2869

Vinyl chloride	0.220000 lb/d N/A	0.560000 lb/d N/A		1/month	Grab
Zn (T)	0.260000 lb/d N/A	0.910000 lb/d N/A		1/week	Composite

Limitations/Monitoring Basis:
BOD and TSS limits and 56 toxic organic pollutant limits are based on ELGs, 40 CFR Part 414, OCPSF category. The daily maximum CN and Cu limits are water-quality based. Cr, An, Ni, and Pb limits are technology-based past demonstrated performance limits. EPA and the MADEP approved computer modelling using UDKHDEN for calculating the zone of initial dilution (ZID). End-of-pipe NH3 limits are calculated using background stream concentration (200 ug/l) and the computer dispersion ratios of 77:1 at the boundary of the ZID and 330:1 for the total mixing zone. For Fe, Co, and P, antibacksliding requires the existing permit limits to remain. Monitoring only was required for color since the discharge through a diffuser will eliminate color concerns. Color must be monitored quarterly during the first half hour of a storm event. Effluent temperature and bromoform parameters arerequired to be monitored. The pH limits are based on the State water quality certification requirements for salt waters. State water quality policy forms the basis for narrative effluent limits for all outfalls including a prohibition against floating solids or visible foam in other than trace amounts. WET is limited using the LC50 at 10.8% dilution per the Technical Support Document for Water Quality-based Toxics Control, EPA/505/2-90-001, March 1991. For each monitoring event, two species must be tested. WET protocol require chemical analysis for pH, specific conductance, salinity, TRO, TSS, NH3, TOC, Cd, Cr, Ni, Pb, Zn, Cu, and Al for each sampling event. After a full year of quarterly toxicity data, the permittee may request reduced monitoring for WET. Other monitoring requirements are based on 40 CFR Part 122.44(j), 122.44(i), and 122.48.

Outfall: 01S | Receiving Water: Taunton R./Muddy Cove Brook | Treatment: None

Amount/Components:
Unspecified amount of stormwater.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	composite
Color	N/A N/A	N/A Report	Report only	1/month	grab
pH	N/A N/A	N/A Report SU	Report range	1/month	4 grabs

Limitations/Monitoring Basis:
Monitoring only is required for color since the discharge through a diffuser will eliminate color concerns. Color must be monitored quarterly during the first half hour of a storm event. pH limits are based on the Statewater quality certification requirements for salt waters. WET is limited using the LC50 at 10.8% dilution per the Technical Support Document for Water Quality-based Toxics Control, EPA/505/2-90-001, March 1991. For eachmonitoring event, two species must be tested. WET protocol require chemical analysis for pH, specific conductance, salinity, TRO, TSS, NH3, TOC, Cd, Cr, Ni, Pb, Zn, Cu, and Al for each sampling event. After a full year of quarterly toxicity data, the permittee may request reduced monitoring for WET. For Outfall 01s, composite samples composed of at least 4 grab samples must be collected 15 minutes apart, commencing during the first hourof a storm event, during normal business hours.

Special Conditions Basis:
Prior to rerouting any non-contact cooling water discharge to the treatment plant or elsewhere, EPA and DEP must be notified at least 30 days in advance.

Effective Date: 07/18/92 | Expiration Date: 07/18/97 | Abstract Date: 07/03/93

Facility Name: Boise Cascade | **Permit Number:** ME0002054

Facility Description: Pulp and paper manufacturer | **SIC Code:** 2621

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	√	-	√	√	√	-	√

Abstract Information:
Partial; Outfalls 001 and 002 (representative of 003 and 004). Outfall designations 001A and 001B created for abstracting purposes.

Outfall: 001A | **Receiving Water:** Androscoggin River | **Treatment:** Direct O2 injection

Amount/Components:

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	N/A N/A	4.600000 mg/d 0.030000 ug/l		2/quarter	72 hr composite
2,3,7,8-TCDF	N/A N/A	91.000000 ug/d Report ug/l		2/quarter	72 hr composite
Acute WET	N/A N/A	N/A Report	See below	1/quarter	24 hr composite
AOX	Report lb/d Report mg/l	N/A N/A	Report lb/ton bleach pulp	1/month	24 hr composite
BOD5	12000.000000 lb/d N/A	20000.000000 lb/d N/A	Seasonal, see below	1/day	24 hr fw composite
Color	N/A N/A	N/A Report	Quarterly avg: 225 l b/ton	3/week	24 hr composite
Flow	N/A 34.000000 MGD	N/A N/A		continuous	record
pH	N/A N/A	N/A Report	Between 5.0 su and 9 .0 su	1/day	grab
Temp.	N/A Report	N/A Report	Units: degrees Faren heit	1/day	grab
TSS	32900.000000 lb/d N/A	61400.000000 lb/d N/A		1/day	24 hr composite

Limitations/Monitoring Basis:
The limits shown for Outfall 001A are effective from June 1 through September 30 of each year. BOD and TSS limits are production based, using ELGs in 40 CFR Part 430, Subparts I, O and R. BOD limits are based on 40 CFR 125.3 and antibacksliding regulations in 40 CFR 122.44(l) and past demonstrated performance. Flow limit was adopted from previous permit. The maximum daily flow limit was deleted because it did not affect the toxics limits. Oxygen injection is required at a minimum rate of 27,000 lb/d at a point downstream of the facility between June 1 and September 30. The TSS limit is based on the ELGs for fine kraft, groundwood, and nonintegrated paper using an average production value. The color limit is a quarterly average limit. The 2378-TCDD limits apply for the first 2 years following permit issuance. Compliance is determined based on a detection level of 10 pq/l. This interim limit is BPJ based, as determined by past demonstrated performance. The dioxin limit is required due to past detections in the effluent and the fact that it is a 304(l) pollutant in Maine. The WET limit was calculated based on acceptable instream mixing and a less than or equal to NOEC at 3.3%. Acute WET test protocols are specified, using Ceriodaphnia dubia and fathead minnows, with salmonid substituted in Feb and Aug. The pH limit is based on ELGs. Reporting is required for both discharge and ambient pH. The color limit is based on state effluent standards for existing bleached kraft mills. Narrative WQSs are included in the permit. The permit prohibits the use of chlorophenolic biocides. AOX monitoring was justified as a means to screen for one or more chlorinated organic compounds which may be toxic or may contribute to toxicity.

Facility Name: Boise Cascade | Permit Number: ME0002054

Facility Description: Pulp and paper manufacturer | SIC Code: 2621

Outfall: 002 | Receiving Water: Androscoggin River | Treatment: None

Amount/Components:
5 MGD noncontact cooling water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A 5.000000 MGD	N/A N/A		1/month	record
pH	N/A N/A	N/A Report	Between 6.0 su and 8 .5 su	1/month	grab
Temp.	N/A N/A	N/A 95.000000	Units: degrees Faren heit	1/month	grab

Limitations/Monitoring Basis:
pH must be no lower than 0.5 su than the upstream pH. Flow, temperature, and pH limits and monitoring conditions are continued from the previous permit.

Outfall: 001B | Receiving Water: Androscoggin River | Treatment: Direct O2 injection

Amount/Components:

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	N/A N/A	91.000000 ug/d N/A		2/quarter	72 hr composite
2,3,7,8-TCDF	N/A N/A	N/A 0.200000 ug/l		2/quarter	72 hr composite
Acute WET	N/A N/A	N/A Report	See below	1/quarter	24 hr composite
AOX	Report lb/d Report mg/l	N/A N/A	Report lb/ton bleach pulp	1/month	24 hr composite
BOD5	12000.000000 lb/d N/A	20000.000000 lb/d N/A	Seasonal, see below	1/day	24 hr fw composite
Color	N/A N/A	N/A Report	Quarterly avg: 225 l b/ton	3/week	24 hr composite
Flow	N/A 34.000000 MGD	N/A N/A		continuous	record
pH	N/A N/A	N/A Report	Between 5.0 su and 9 .0 su	1/day	grab
Temp.	N/A Report	N/A Report	Units: degrees Faren heit	1/day	grab
TSS	32900.000000 lb/d N/A	61400.000000 lb/d N/A		1/day	24 hr composite

Limitations/Monitoring Basis:
The limits shown for Outfall 001B are effective from October 1 through May 31 of each year. See the limitations/monitoring basis for Outfall 001A. The final limit for 2378-TCDD is water quality based, and is effective 2 years after permit issuance.

Special Conditions Basis:
A BMP plan is required to reduce 2378-TCDD and 2378-TCDF and AOX in pulping and bleaching operations and wastewater treatment. BMPs for chlorine minimization are required to support the interim BAT limits for 2378-TCDD.Fish tissue monitoring for 2378-TCDD and 2378-TCDR are required annually in August for resident black bass and bullheads or white suckers (or DEP-approved alternative organism). Fish tissue will be used to indicate whether effluent levels are causing excursions above numeric standards. A thermal impact study is required to assess compliance with Maine

Facility Name: Boise Cascade	Permit Number: ME0002054
Facility Description: Pulp and paper manufacturer	SIC Code: 2621

temperature standards. An emergency response plan is required for detection of, and notification about malfunctions of the oxygen injection system that is located downstream of the plant. The permittee must participate in the State's priority pollutant program described in a 11/1/90 letter to the DEP from the Paper Industry Information Office. Two reports to EPA within 2 years are required on (1) the economic and environmental impacts of alternative hydroelectric withdrawal sites and operating procedures which would improvesummer DO levels in Gulf Island Pond, and (2) an evaluation of possible inplant processing changes or wastewater treatment changes which could yieldat least a 10% reduction in actual summer BOD in the river. Within 3 years of the permit effective date, a report to EPA is due evaluating the economic and environmental impacts of removing high oxygen demanding sediments from Gulf Island Pond. Additional standard conditions are set forth per40 CFR Part 122.42(a)(1).

Effective Date: 04/30/92	Expiration Date: 03/30/97	Abstract Date: 09/27/93

Facility Name: S.D. Warren Co - Scott Paper | Permit Number: ME0002321

Facility Description: Pulp and paper manufacturer | SIC Code: 2621

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	√	√	√	-	√	-

Abstract Information:
Complete; Outfalls 001 and 003 (designated as 001A, 001B, 003A, and 003B for abstracting purposes) and 002.

Outfall: 001A | Receiving Water: Presumpscot River | Treatment: AS

Amount/Components:
19 MGD process wastewater, sand filter backwash, and noncontact cooling water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	N/A N/A	2.000000 mg/d 0.030000 ug/l	See below	2/quarter	72 hr composite
2,3,7,8-TCDF	N/A N/A	Report ug/d 0.200000 ug/l	See below	2/quarter	72 hr composite
Acute WET	N/A N/A	N/A Report	See below	1/quarter	24 hr composite
AOX	Report Report mg/l	N/A N/A	Report kg/ton bleach pulp	1/month	24 hr composite
BOD5	4500.000000 lb/d N/A	10200.000000 lb/d N/A		1/day	24 hr composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	24 hr composite
Color	N/A Report	N/A Report	Quarterly avg: 225 l b/ton	3/week	24 hr composite
Flow	N/A 21.000000 MGD	N/A N/A		continuous	record
pH	N/A N/A	N/A Report	Between 5.0 su and 9 .0 su	1/day	grab
TSS	12810.000000 lb/d N/A	25570.000000 lb/d N/A	See below	1/day	24 hr composite

Limitations/Monitoring Basis:
The limits shown for Outfall 001A apply to 001 during June 1 through October 31. The TSS and pH limits are ELG based (40 CFR Part 430 for bleached kraft paper). The 2378-TCDD limit is BPJ based using the 1988-89 EPA/Paer Industry Cooperative Dioxin Study and onsite testing. The state has established this limit as BAT and it applies for the first three years of permit issuance. After that time, the daily maximum limits for 2378-TCDD are 31 ug/d and report ug/l; these are water quality based limits. Acute and chronic WET testing is to be conducted following specified protocols, using 3 species. The limits were calculated based on acceptable instream mixing with less than 14% effluent for and acute NOEC and less than or equal to 12.5% effluent for the chronic NOEC. The permit contains a heat added requirement based on water quality standards of 700 million Btu/d maximum daily during June 1 through September 30 and 7 billion Btu/d during the remaining months of the year. The protocol for color monitoring is provided in the permit, and is based on state standards. BOD limits are based onWQSs and antibacksliding requirements. AOX monitoring is deemed necessary to screen for the presence of potentially toxic chlorinate compounds.

Facility Name: S.D. Warren Co - Scott Paper | Permit Number: ME0002321

Facility Description: Pulp and paper manufacturer | SIC Code: 2621

Outfall: 001B | Receiving Water: Presumpscot River | Treatment: AS

Amount/Components:
19 MGD process wastewater, sand filter backwash, and noncontact cooling water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	N/A N/A	2.000000 mg/d 0.030000 ug/l	See below	2/quarter	72 hr composite
2,3,7,8-TCDF	N/A N/A	Report ug/d 0.200000 ug/l	See below	2/quarter	72 hr composite
Acute WET	N/A N/A	N/A Report	See below	1/quarter	24 hr composite
AOX	Report Report mg/l	N/A N/A	Report kg/ton bleach pulp	1/month	24 hr composite
BOD5	6500.000000 lb/d N/A	12000.000000 lb/d N/A		1/day	24 hr composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	24 hr composite
Color	N/A Report	N/A Report	Quarterly avg: 225 l b/ton	3/week	24 hr composite
Flow	N/A 21.000000 MGD	N/A N/A		continuous	record
pH	N/A N/A	N/A Report	Between 5.0 su and 9 .0 su	1/day	grab
TSS	14200.000000 lb/d N/A	26400.000000 lb/d N/A	See below	1/day	24 hr composite

Limitations/Monitoring Basis:
The limits shown for Outfall 001B apply to 001 during November 1 through May 31. The 2378-TCDD limit is water quality based and applies three years after permit issuance. The limit is based on EPA human health criteria and assumes harmonic mean flow. The color limit is expressed as a quarterly average and is based on an allowance under state law to exceed state established BPT. The heat limit applies Oct 1 through May 31 and is water quality based (MEDEP regulations, Ch. 582). Heat added during Nov 1 through May 31 must not exceed 7 billion Btu/d, and the permittee is required to report the monthly average Btu/d, as well as the degrees Farenheit. The WET limits were deemed necessary to protect against acute or chronic effects in teh receiving water.

Outfall: 002 | Receiving Water: Presumpscot River | Treatment: None

Amount/Components:
75,000 gpd water treatment filter backwash

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	estimate
pH	N/A N/A	N/A Report	Between 5.0 su and 8 .5 su	1/month	grab
TSS	N/A 20.000000 mg/l	N/A 60.000000 mg/l		1/month	24 hr composite

Limitations/Monitoring Basis:
The pH limit is based on state requirements. The TSS limit is based on the previous permit. The permit prohibits the use of chemical additives to backwash water.

Facility Name: S.D. Warren Co - Scott Paper | Permit Number: ME0002321

Facility Description: Pulp and paper manufacturer | SIC Code: 2621

Outfall: 003A | Receiving Water: Presumpscot River | Treatment: None

Amount/Components:
5 MGD noncontact cooling water

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	estimate
pH	N/A N/A	N/A Report	Between 5.0 su and 8 .5 su	1/week	grab
Temp.	N/A N/A	N/A Report	See below	2/day	grab

Limitations/Monitoring Basis:
The limits shown for Outfall 003A apply June 1 through September 30. The pH limit is based on state certification. The heat limit is based on state regulations, MEDEP reguations Ch 582, and is 700 million Btu/d daily maximum. The permit prohibits cooling water additives.

Outfall: 003B | Receiving Water: Presumpscot River | Treatment: None

Amount/Components:
5 MGD noncontact cooling water

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	estimate
pH	N/A N/A	N/A Report	Between 5.0 su and 8 .5 su	1/week	grab
Temp.	N/A N/A	N/A Report	See below	2/day	grab

Limitations/Monitoring Basis:
The limits shown for Outfall 003B apply October 1 through May 31. The pH limit is based on state certification. The heat limit is based on state regulations, MEDEP regulations Ch 582, and is 7 billion Btu/d daily maximum. The permit prohibits cooling water additives.

Special Conditions Basis:
A requirement is imposed for the facility to continue to implement its program to reduce 2378-TCDD and 2378-TCDF. The permittee must submit annual reports on this program. Fish tissue monitoring is required for 2378-TCDD and 2378-TCDF annually during August for black bass and bullheads or white suckers, or a DEP-approved alternative organism. The survey also requires monitoring of 10 softshelled clams (Mya arenaria) from the river for 2378-TCDD and 2378-TCDF testing following protocol in the "Sampling Guidance Manual for the National Dioxin Study" (EPA, 1984). The permittee must ensure that the discharge does not cause or contribute to elevation of toxics in the river above water quality criteria for toxic pollutants as referenced in Maine Law Title 38 MRSA 420. Within 18 months of permit issuance, the permit requires a plan outlining monthly toxics monitoring upstream,in the effluent and downstream, to determine whether the discharge is causing exceedances of WQSs. The plan must compare water quality criteria with the effluent Cu and Pb concentrations. A state approved biological survey must be conducted within 18 months of the effective date of the permit. This survey includes fish, macroinvertegrate, plant community and benthic organisms located below the discharge and in the estuary. The plan must include instream monitoring for the temp., DO, and TSS. Additional standard conditions are set forth per 40 CFR Part 122.42(a)(1). State and EPA WET testing protocols are attached to the permit. Analytical methods andMDLs are provided for AOX, color, 2378-TCDD and WET analysis.

Effective Date: 10/28/92 | Expiration Date: 10/28/97 | Abstract Date: 09/27/93

Facility Name: The Cumberland Farms, Inc. | **Permit Number:** ME0022314

Facility Description: The facility stores and distributes refined petroleum products. | **SIC Code:** 5171

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	-	√	√	-

Abstract Information:
Complete outfalls; 001 (A, B, and C for abstracting purposes), and 002.

Outfall: 001A | **Receiving Water:** Fore River on Casco Bay | **Treatment:** API

Amount/Components:
Unspecified amount of storm water runoff from fuel storage areas including boiler blowdown.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	3/year	grab
Benzene	N/A 500.000000 ug/l	N/A N/A		1/month	grab
Ethylbenzene	N/A N/A	N/A Report	No units specified	1/month	grab
Flow	N/A Report	N/A 320.000000 GPM		Continuous	record
O&G	N/A N/A	N/A 15.000000 mg/l		1/month	grab
PAHs	N/A 60.000000 ug/l	N/A N/A		1/month	grab
pH	N/A N/A	N/A Report SU		1/month	grab
Toluene	N/A N/A	N/A Report	No units specified	1/month	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/month	grab
Xylenes	N/A N/A	N/A Report	No units specified	1/month	grab

Limitations/Monitoring Basis:
The designations 001A, 001B, and 001C represent Outfall 001 at different time periods. 001A reflects the period from the effective date to the first 12 months of the permit life, during wet weather. BPJ was used to apply the stormwater runoff limits from the Steam Electric Point Source Category (40 CFR Part 423) to establish a TSS limit. BPJ and the demonstrated level of performance at oil terminals with API separators forms the basis for the benzene limit. The frequency of once per month is further defined as "one significant storm event per month". If no storm occurs, a negative report is filed. The Oil and Grease limit is based on State certification (not described). pH monitoring is based on State WQSs but limit was not imposed pending verification that terminal operations did not influence pH. WET testing required in spring, summer and fall using a dapnid and a fathead minnow. After 1st year of permit term, WET frequency is reduced to 1/year. The Acute WET limit is less than 50 % mortality after 48 hours. PAH limits are WQ based, using Tidal Prism Method for limits calculations. The limit given is for one chemical. The permit provides a detection level of 10 ug/l and a list of PAHs. Narrative State WQSs are included in the permit. No other basis for monitoring was provided.

Facility Name: The Cumberland Farms, Inc. | Permit Number: ME0022314

Facility Description: The facility stores and distributes refined petroleum products. | SIC Code: 5171

Outfall: 001B | Receiving Water: Fore River on Casco Bay | Treatment: API

Amount/Components:
Unspecified amount of storm water runoff from fuel storage areas including boiler blowdown.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/year	grab
Benzene	N/A 500.000000 ug/l	N/A N/A		1/quarter	grab
Ethylbenzene	N/A N/A	N/A Report	No units specified	1/quarter	grab
Flow	N/A Report	N/A 320.000000 GPM		continuous	record
O&G	N/A N/A	N/A 15.000000 mg/l		1/month	grab
PAHs	N/A 60.000000 ug/l	N/A N/A		1/quarter	grab
pH	N/A N/A	N/A Report SU		1/month	grab
Toluene	N/A N/A	N/A Report	No units specified	1/quarter	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/month	grab
Xylenes	N/A N/A	N/A Report		1/quarter	grab

Limitations/Monitoring Basis:
The designations 001A, 001B, and 001C represent Outfall 001 at different time periods. 001A reflects the period from the effective date to the first 12 months of the permit life, during wet weather. BPJ was used to apply the stormwater runoff limits from the Steam Electric Point Source Category (40 CFR Part 423) to establish a TSS limit. BPJ and the demonstrated level of performance at oil terminals with API separators forms the basis for the benzene limit. The frequency of once per month is further defined as "one significant storm event per month". See the basis for Outfall 001A.

Outfall: 001C | Receiving Water: Fore River on Casco Bay | Treatment: API

Amount/Components:
Unspecified amount of storm water runoff from fuel storage areas including boiler blowdown.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report	N/A 320.000000 GPM		continuous	record
O&G	N/A N/A	N/A 15.000000 mg/l		2/year	grab
pH	N/A N/A	N/A Report SU		2/year	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		2/year	grab

Limitations/Monitoring Basis:
The designations 001A, 001B, and 001C represent Outfall 001 at different time periods. 001C reflects dry weather discharge. BPJ was used to apply the stormwater runoff limits from the Steam Electric Point Source Category (40 CFR Part 423) to establish a TSS limit. BPJ and the demonstrated level of performance at oil terminals with API separators forms the basis for the benzene limit. The frequency of once per month is further defined as "one

Facility Name: The Cumberland Farms, Inc. **Permit Number:** ME0022314

Facility Description: The facility stores and distributes refined petroleum products. **SIC Code:** 5171

significant storm event per month". See the basis for Outfall 001A.

Outfall: 002 | **Receiving Water:** Fore River on Casco Bay | **Treatment:** None

Amount/Components:
Unspecified amount of untreated storm water runoff from fuel storage areas including boiler blowdown.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
O&G	N/A N/A	N/A 15.000000 mg/l		1/quarter	grab
pH	N/A N/A	N/A Report SU		1/quarter	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/quarter	grab

Limitations/Monitoring Basis:
The TSS limit is based on the determination that the "limit and sampling frequency are adequate to characterize the discharge and sufficient to reflect poor operational conditions" according to the Fact Sheet. The pH limit is based on State WQSs for Class SC waters. The O&G limit is based on State certification requirements (not described).

Special Conditions Basis:
Cumberland Farms is required to install a continuous flow meter and manually control flow through the oil/water seperators to prevent oil or particulate carryover. A BMP plan is required. Proper Maintenance Practices (PMPs) were required through the BMP plan to remove recently deposited organic matter within the diked areas. Bilge water and tank bottoms have a high potential to become contaminated when they contact petroleum products. Therefore, untreated wastewater from these sources is prohibited until WET testing shows that toxicity is not occurring. The discharge has met all effluent limits for Outfall 001, and the discharge has not violated numeric water quality standards. Additional standard conditions per 40 CFR Part 122.42 (a)(1) were also established. Methods and MDLs arecified for WET, PAHs, ethylbenzene, toluene, and xylenes. The permittee is required to submit laboratory data sheets.

Effective Date: 01/24/92 Expiration Date: 01/23/97 Abstract Date: 04/04/93

Facility Name: United Technologies-Pratt&Whit | Permit Number: ME0022861

Facility Description: Metal finishing for manufacture of aircraft parts. | SIC Code: 3721

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	-	-

Abstract Information:
Partial; Outfalls 003, 004, and 005 (representative of 006, 007, and 008).

Outfall: 003 | Receiving Water: Great Works River | Treatment: Neut, CAC, Fil (high pressure a

Amount/Components:
130,000 GPD treated process and sanitary wastewater.

Parameter	Limitations: Average	Limitations: Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Ag (T)	N/A Report mg/l	N/A Report mg/l		1/month	Composite
Cd (T)	0.006300 lb/d 3.800000 ug/l	0.013000 lb/d 5.300000 ug/l		1/week	Composite
Chronic WET	N/A N/A	N/A N/A	See below	1/quarter	Composite
CN (T)	0.100000 lb/d 0.062000 mg/l	0.450000 lb/d 0.180000 mg/l		1/month	Grab
Cr (T)	0.620000 lb/d N/A	0.250000 lb/d N/A		1/week	Composite
Cr+6	0.220000 lb/d 0.130000 mg/l	0.320000 lb/d 0.130000 mg/l		1/week	Composite
Cu (T)	0.053000 lb/d 0.032000 mg/l	0.080000 lb/d 0.032000 mg/l		1/week	Composite
Fl	N/A N/A	N/A 10.000000 mg/l		1/month	Composite
Flow	N/A 0.200000 MGD	N/A 0.300000 MGD		Continuous	Recorder
Ni (T)	0.800000 lb/d 0.480000 mg/l	2.500000 lb/d 1.000000 mg/l		1/week	Composite
O&G	N/A N/A	N/A 15.000000 mg/l		1/week	Grab
P (T)	0.034000 lb/d 0.020000 mg/l	0.100000 lb/d 0.040000 mg/l		1/week	Grab
Pb (T)	0.008200 lb/d 4.900000 ug/l	0.220000 lb/d 87.000000 ug/l		1/week	Composite
pH	N/A N/A	N/A N/A	See below	1/day	Grab
Temp.	N/A Report	N/A Report	Units: degrees Farenheit	3/week	Grab
TSS	N/A N/A	N/A 15.000000 mg/l		2/month	Composite
TTOs	N/A N/A	N/A 2.130000 mg/l	See below	1/quarter	Grab

Facility Name: United Technologies-Pratt&Whit					Permit Number: ME0022861
Facility Description: Metal finishing for manufacture of aircraft parts.					SIC Code: 3721
Zn (T)	0.420000 lb/d 0.250000 mg/l	0.630000 lb/d 0.190000 mg/l		1/month	Composite

Limitations/Monitoring Basis:
Mass and concentration limits for metals, TTOs, and CN are based on ELGs for the metal finishing category. It appears that the limits for Cd, Cr+6, Pb, Ni (monthly average only), Cu, and CN are water quality based. The dilution factor is 9.2 and the 7Q10 is 2.55 cfs. The basis for the other limits (monthly average Cr and Cu, Zn, P, Fl, and Ag) appear to be based on water quality criteria. The daily maximum limits for Cr, Ni, TSS, and O&G are based on the existing permit (Federal anti-backsliding). Where composite samples are required in the permit, they must be comprised of at least 8 grab samples collected throughout the period of one working day. Based on State WQSs, the pH range limit of 5.0 to 8.5 applies, unless influent pH exceeds that range. Chronic WET testing is required to evaluate the C-NOEC (limited at 8.4%), A-NOEC (limited at >79%), and the LC50 (reporting purposes only). The test species include instream mixing with >14% effluent and >12.5% effluent, respectively. WET protocol require use of Ceriodaphnia dubia and Salvelinus forntinalis in January and July and Pimephales promelas in April and October, tested quarterly. WET tests must be conducted in February and August using Ceriodaphnia dubia and Salvelinus fontinalis and in May and November using Ceriodaphnia dubia and Pimephales promelas. Testing protocol is provided in the permit. Temperature limits apply from the point of discharge to a downstream dam. Receiving water (outside the mixing zone) may not exceed 68 degrees Farenheit not increase by more than 5 degrees F. When the ambient temperature exceed 68 degrees F, then the maximum allowable increase is 0.5 degrees F. Monitoring is required 3/week from May through October (upstream and downstream). Permit contains narrative WQSs applicable at all outfalls. Toxicity frequency is based on EPA policy for discharges with dilution less than 10:1.

Outfall: 004 | **Receiving Water:** Great Works River | **Treatment:** None

Amount/Components:
5000 GPD (average) noncontact wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A 0.280000 MGD		Continuous	Recorder
pH	N/A N/A	N/A N/A	Between 6.0 su and 8 .5 su	1/month	Grab
Temp.	N/A N/A	N/A Report	Units: degrees Faren heit	1/day	Grab

Limitations/Monitoring Basis:
The permit limits the pH change above background to 0.5 su.

Outfall: 005 | **Receiving Water:** Great Works River | **Treatment:** None

Amount/Components:
Unspecified amount of stormwater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/quarter	Estimate
O&G	N/A N/A	N/A Report mg/l		1/quarter	Grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 8 .5 su	1/month	Grab
TSS	N/A N/A	N/A Report mg/l		1/quarter	Grab

Limitations/Monitoring Basis:
The permit limits the pH change above background to 0.5 su.

Special Conditions Basis:
The permittee may opt to submit a TTO certification (per 40 CFR Part 433) in lieu of monitoring for one or more TTO pollutants. The permittee's Solvent Management Plan (SMP) must be updated and submitted to the State within 180 days of permit reissuance. The permittee must ensure that the discharge does not cause or contribute to elevation of toxics in the river above water quality criteria for toxic pollutants as referenced in Maine LawTitle 38 MRSA

Facility Name: United Technologies-Pratt&Whit		Permit Number: ME0022861
Facility Description: Metal finishing for manufacture of aircraft parts.		SIC Code: 3721
420. Additional standard conditions are set forth per 40 CFR Part 122.42(a)(1). The A-NOEC and C-NOECs are described as the acute and chronic limits set equal to the inverse of the dilution factor (9.2). A-NOEC and C-NOEC are determined based on acute and chronic effects, respectively.		
Effective Date: 07/12/92	Expiration Date: 07/12/97	Abstract Date: 09/25/93

Facility Name: Potlatch Corp. | Permit Number: MN0001422

Facility Description: Paper mill, nonintegrated | SIC Code: 2621

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	√	-	√

Abstract Information:
Complete; Outfalls 010, 020.

Outfall: 010 | Receiving Water: Mississippi River | Treatment: Cac, Scr, Neut

Amount/Components:
0.369 MGD (average rate) noncontact cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		Continuous	Total
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/month	
Temp.	N/A N/A	N/A 100.000000	Units: degrees Farenheit	Continuous	
TRC	N/A N/A	N/A 38.000000 ug/l		1/month	Grab

Limitations/Monitoring Basis:
The permit contains a prohibition of the discharge of floating solids or visible foam in other than trace amounts, as well as oil or other substances sufficient to create a visible color film on the surface of the receiving waters. The EPA method for monitoring for TRC is specified and the detection level is discussed. The basis for the above limitations and monitoring conditions was not provided.

Outfall: 020 | Receiving Water: Mississippi R. | Treatment: PC, Scr, Neut

Amount/Components:
Unspecified amount of treated process wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A N/A			
Acute WET	N/A N/A	N/A N/A			
CBOD5	1050.000000 lb/d N/A	2100.000000 lb/d N/A		1/day	24 hr fw composite
CBOD5	1050.000000 lb/d N/A	2100.000000 lb/d N/A		1/day	24 hr fw composite
Flow	N/A N/A	N/A Report MGD		Continuous	Total
Flow	N/A N/A	N/A Report MGD		Continuous	Total
P (T)	N/A N/A	N/A Report	Units not specified	1/month	24 hr fw composite
P (T)	N/A N/A	N/A Report	Units not specified	1/month	24 hr fw composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su		

Facility Name: Potlatch Corp. Permit Number: MN0001422

Facility Description: Paper mill, nonintegrated SIC Code: 2621

pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su		
Temp.	N/A N/A	N/A 100.000000	Units: degrees Faren heit	Continuous	
Temp.	N/A N/A	N/A 100.000000	Units: degrees Faren heit	Continuous	
TRC	N/A N/A	N/A N/A		1/month	Grab
TRC	N/A N/A	N/A N/A		1/month	Grab
TSS	1260.000000 lb/d N/A	2520.000000 lb/d N/A		1/day	24 hr fw composite
TSS	1260.000000 lb/d N/A	2520.000000 lb/d N/A		1/day	24 hr fw composite

Limitations/Monitoring Basis:
Acute toxicity testing is to be conducted following specified EPA guidance, using 3 species and 5 dilutions. After 1 year of monthly P(T) testing, the permittee may request a reduced monitoring frequency if the analytical results have been consistently below detection levels using specified EPA methods. The EPA method for monitoring for TRC is specified and the detection level is discussed. The limitations for CBOD5 and TSS were based on ELGs in 40 CFR Part 430 Subpart R and State WQSs in MN Rule Ch 7050.0210, Subpart 10; 7050.0211, Subpart 1; and 7050.0212, Subpart 1 and Subpart 3.

Special Conditions Basis:
The permit may be reopened based on the results of toxicity testing.

Effective Date: 09/30/92 Expiration Date: 09/30/97 Abstract Date: 09/18/93

Facility Name: Boise Cascade Corporation									Permit Number: MN0001643
Facility Description: Pulp and paper manufacturer (bleached kraft, nonintegrated fine, unble									SIC Code: 2611
Limit Basis:	ELGs √	WQSs √	BPJ -	Monitoring Only √	WET Limits -	WET Testing Only √	Multiple Categories -	Tiered Limits √	Other -
Special Conditions:	BMPs √	Storm Water -	Sediment -	WQ Survey √	Bio Survey √	TRES √	MDLs √	Monitoring √	Other √

Abstract Information:
Complete; Outfall 030.

Outfall: 030 | Receiving Water: Rainy River | Treatment: PF, AS, ChOx

Amount/Components:
36.39 MGD cooling water, noncontact cooling water, and process wastewater

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
2,3,7,8-TCDD	N/A N/A	0.000887 mg/d N/A		1/month	5 day composite
2,3,7,8-TCDF	N/A N/A	0.013300 mg/d N/A		1/month	5 day composite
2,4,6-Trichlorophenol	N/A N/A	N/A Report	units not provided	1/quarter	24 hr composite
2,4-Dichlorophenol	N/A N/A	N/A Report	units not provided	1/quarter	24 hr composite
Acute WET	N/A N/A	N/A Report	See below	1/year	24 hr composite
AOX	N/A N/A	N/A Report	units not provided	1/month	24 hr composite
BOD5	4720.000000 kg/d N/A	8905.000000 kg/d N/A		1/day	24 hr composite
Chlorosyringaldehyde	N/A N/A	N/A Report	units not provided	1/quarter	24 hr composite
Flow	N/A N/A	N/A Report MGD		continuous	not given
P (T)	N/A N/A	N/A Report	units not provided	1/quarter	24 hr composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/day	grab
Phenols	N/A N/A	N/A Report	units not provided	1/quarter	24 hr composite
TSS	7935.000000 kg/d N/A	14933.000000 kg/d N/A		1/day	24 hr composite

Limitations/Monitoring Basis:
The analytical detection levels for 2378-TCDD and 2378-TCDF are 10 ppq. Monitoring on a monthly basis is to be preformed on waste water treatment plant effluent, influent to the plant, primary and secondary sludges, and fish tissue analysis. If measurements are below detection levels, compliance is assumed. The permittee is required to conduct a PCB monitoring program using effluent samples prior to mixing with cooling and noncontact cooling water. A remedial action plan is to be developed if reported concentrations exceed 20 ppt. Monitoring is to be conducted on a monthly basis for 1 year. If acute toxicity testing indicates a mortality rate of 50% in 100% effluent, TRC may be required within 56 days, pending a commissioners decision. WET testing shall be conducted using 4 species, following EPA guidance, and using recommended dilution factors. Phenolic water quality monitoring is to be conducted both upstream and downstream of the discharge until 12/31/93. AOX monitoring is to be performed using process effluent prior to mixing with cooling water. The permittee is required to conduct fish tissue analysis for dioxin, furan, and PCBs. The permittee is also required to conduct a study to determine dioxin and furan concentrations in SSs. The permittee is required to report daily average production levels on a monthly basis. The limitations and monitoring conditions were based on ELGs in 40 CFR Part 430 and state water quality criteria. Discharge limits were calculated based on a production rate of 1483 gross MDTPD, 980 using NSPS due to mill expansion. Dioxin and furan limitations are effective until 7/1/95 unless an oxygen delignification is installed.

Facility Name: Boise Cascade Corporation	Permit Number: MN0001643
Facility Description: Pulp and paper manufacturer (bleached kraft, nonintegrated fine, unble	SIC Code: 2611

The limits then effective until 7/1/96 are 3.28 (10 -7) kg/d daily maximum for dioxin and 1.0 (10 05) kg/d daily maximum for furan. These mass limits are based on an average flow of 23.4 MGD.

Special Conditions Basis:

The permittee is required to conduct a 2 phase dioxin and chlorinate organics control program. Upon permit issuance the permittee must eliminate brownstock defoamers containing recycled oils, minimize use of foamers containing dioxin precursors, and implement dioxin formation minimization measures. Phase II involves the application of alternate technologies to minimize dioxin and chlorinated organic formation and submit study reports to achieve compliance with respective limits. If monthly average production rates fall below 1100 gross MDTPD, the permit may be reopened to accurately reflect production for the mass based limits.

Effective Date: 11/24/92	Expiration Date: 10/31/96	Abstract Date: 09/14/93

Facility Name: Otter Tail Power Co.-Hoot Lake | Permit Number: MN0002011

Facility Description: Coal-fired steam electric generating plant | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Partial; Outfalls 901, 904, 905, 906, 909, 020, 030, and 040 representative of 14 total outfalls.

Outfall: 020 | Receiving Water: Otter Tail River | Treatment: Not specified

Amount/Components:
Average of 4 to 8 MG/batch twice per year of metal cleaning wastes and material storage/coal pile runoff water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Cu (T)	3.300000 lb/d 0.200000 mg/l	6.700000 lb/d 0.400000 mg/l		1/batch disch.	Grab
Cu (T)	3.300000 lb/d 0.200000 mg/l	6.700000 lb/d 0.400000 mg/l		1/batch disch.	Grab
Fe (T)	N/A N/A	16.700000 lb/d 1.000000 mg/l		1/batch disch.	Grab
Fe (T)	N/A N/A	16.700000 lb/d 1.000000 mg/l		1/batch disch.	Grab
Flow	N/A N/A	N/A Report MGD		1/batch disch.	Estimate
Flow	N/A N/A	N/A Report MGD		1/batch disch.	Estimate
O&G	167.000000 lb/d 10.000000 mg/l	250.000000 lb/d 15.000000 mg/l		1/batch disch.	Grab
O&G	167.000000 lb/d 10.000000 mg/l	250.000000 lb/d 15.000000 mg/l		1/batch disch.	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/batch disch.	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/batch disch.	Grab
TSS	501.000000 lb/d 30.000000 mg/l	835.000000 lb/d 50.000000 mg/l		1/batch disch.	Grab
TSS	501.000000 lb/d 30.000000 mg/l	835.000000 lb/d 100.000000 mg/l		1/batch disch.	Grab

Limitations/Monitoring Basis:
The basis for the limitations and monitoring conditions was not provided. The mass limitations were based on the total batch flow divided by the number of days of the batch discharge which was estimated as an average of 2 MGD.

Outfall: 030 | Receiving Water: Otter Tail River | Treatment: Not specified

Amount/Components:
0.0054 to 0.0108 MGD of vacuum seal line water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	Estimate

Facility Name: Otter Tail Power Co.-Hoot Lake | Permit Number: MN0002011

Facility Description: Coal-fired steam electric generating plant | SIC Code: 4931

Flow	N/A N/A	N/A Report MGD		1/day	Estimate
O&G	0.900000 lb/d 10.000000 mg/l	1.400000 lb/d 15.000000 mg/l		1/week	Grab
O&G	0.900000 lb/d 10.000000 mg/l	1.400000 lb/d 15.000000 mg/l		1/week	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su		
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su		
TSS	2.700000 lb/d 30.000000 mg/l	9.000000 lb/d 100.000000 mg/l		1/week	Grab
TSS	2.700000 lb/d 30.000000 mg/l	9.000000 lb/d 100.000000 mg/l		1/week	Grab

Limitations/Monitoring Basis:
The basis for the limitations and monitoring conditions was not provided.

Outfall: 040 | Receiving Water: Otter Tail River | Treatment: Not specified

Amount/Components:
0.144 MGD of bearing cooling water line water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
TRC	N/A N/A	0.005000 lb/d 0.050000 mg/l		1/day	Grab
TRC	N/A N/A	0.005000 lb/d 0.050000 mg/l		1/day	Grab

Limitations/Monitoring Basis:
The basis of the limitations and monitoring conditions was not provided.

Outfall: 901 | Receiving Water: Otter Tail River | Treatment: Not specified

Amount/Components:
Average 11.5 MGD condenser cooling water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
Temp.	N/A N/A	N/A Report	See below	1/hour	Record
Temp.	N/A N/A	N/A Report	See below	1/hour	Record
TRC	N/A N/A	0.450000 lb/d 0.050000 mg/l	See below		

Facility Name: Otter Tail Power Co.-Hoot Lake					Permit Number: MN0002011
Facility Description: Coal-fired steam electric generating plant					SIC Code: 4931
TRC	N/A N/A	0.450000 lb/d 0.050000 mg/l	See below		

Limitations/Monitoring Basis:
The effluent must not raise the temperature of the receiving water at the edge of the mixing zone defined in the permit by more than 5 degrees Farenheit above natural during April and May, or above 86 degrees Farenheit atall times. Monitoring, recording and reporting for temperature is required at least hourly. The permittee is required to report the monthly average plant capacity factor as a percent of total capacity. TRC represents bromine and TRO as chlorine. The discharge of TRC must not exceed a total of 2 hr/24 hr period and must not be discharged from more than one outfall simultaneously. All outfalls contain the prohibition of discharge of floating solids or visible foam in other than trace amounts as well as oil or other substances in amounts sufficient to create a visible color film on the surface of the receiving waters. The basis for the limitations and monitoring conditions was not provided.

Outfall: 904 | Receiving Water: Otter Tail River | Treatment: Not specified

Amount/Components:
Average 0.0014 MGD of boiler blowdown water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cu (T)	0.050000 lb/d N/A	0.100000 lb/d N/A		1/month	Grab
Cu (T)	0.050000 lb/d N/A	0.100000 lb/d N/A		1/month	Grab
Fe (T)	N/A N/A	0.200000 lb/d 1.000000 mg/l		1/month	Grab
Fe (T)	N/A N/A	0.200000 lb/d 1.000000 mg/l		1/month	Grab
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
O&G	1.900000 lb/d 10.000000 mg/l	2.900000 lb/d 15.000000 mg/l		1/month	Grab
O&G	1.900000 lb/d 10.000000 mg/l	2.900000 lb/d 15.000000 mg/l		1/month	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su		
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su		
TSS	5.700000 lb/d 30.000000 mg/l	19.100000 lb/d 100.000000 mg/l		1/month	Grab
TSS	5.700000 lb/d 30.000000 mg/l	19.100000 lb/d 100.000000 mg/l		1/month	Grab

Limitations/Monitoring Basis:
The basis for the limitations and monitoring conditions was not provided.

Facility Name: Otter Tail Power Co.-Hoot Lake | Permit Number: MN0002011

Facility Description: Coal-fired steam electric generating plant | SIC Code: 4931

Outfall: 905 | Receiving Water: Otter Tail River | Treatment: Not specified

Amount/Components:
Average and maximum of 0.0085 MGD/tank discharge of demineralizer regenerant water.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
O&G	0.700000 lb/d 10.000000 mg/l	1.100000 lb/d 15.000000 mg/l		1/month	Grab
O&G	0.700000 lb/d 10.000000 mg/l	1.100000 lb/d 15.000000 mg/l		1/month	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su		
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su		
TSS	2.100000 lb/d 30.000000 mg/l	7.100000 lb/d 100.000000 mg/l		1/month	Grab
TSS	2.100000 lb/d 30.000000 mg/l	7.100000 lb/d 100.000000 mg/l		1/month	Grab

Limitations/Monitoring Basis:
The basis for the limitations and monitoring conditions was not provided.

Outfall: 906 | Receiving Water: Otter Tail River | Treatment: Not specified

Amount/Components:
0.0115 MGD of discharge from Unit 1 floor drains.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
O&G	6.800000 lb/d 10.000000 mg/l	10.300000 lb/d 15.000000 mg/l		1/week	Grab
O&G	6.800000 lb/d 10.000000 mg/l	10.300000 lb/d 15.000000 mg/l		1/week	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su		
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su		
TSS	20.500000 lb/d 30.000000 mg/l	68.400000 lb/d 100.000000 mg/l		1/week	Grab
TSS	20.500000 lb/d 30.000000 mg/l	68.400000 lb/d 100.000000 mg/l		1/week	Grab

Limitations/Monitoring Basis:
The basis for the limitations and monitoring conditions was not provided.

Facility Name: Otter Tail Power Co.-Hoot Lake | Permit Number: MN0002011

Facility Description: Coal-fired steam electric generating plant | SIC Code: 4931

Outfall: 909 | Receiving Water: Otter Tail River | Treatment: Not specified

Amount/Components:
0.400 MGD of Units 1 and 2 cooling tower blowdown.

Parameter	Limitations			Monitoring Requirements	
	Average	Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
Flow	N/A N/A	N/A Report MGD		1/day	Estimate
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/week	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/week	Grab
TRC	N/A N/A	0.020000 lb/d 0.050000 mg/l		1/day	Grab
TRC	N/A N/A	0.020000 lb/d 0.050000 mg/l		1/day	Grab
TSS	125.000000 lb/d 30.000000 mg/l	417.000000 lb/d 100.000000 mg/l		1/week	Grab
TSS	125.000000 lb/d 30.000000 mg/l	417.000000 lb/d 100.000000 mg/l		1/week	Grab

Limitations/Monitoring Basis:
The basis for the limitations and monitoring conditions was not provided. TRC represents bromine and TRO as chlorine. The discharge of TRC must not exceed a total of 2 hr/24 hr period and must not be discharged from more than one outfall simultaneously. TRC is to be monitored during application of bromine/chlorine and the amount of time of application must be reported. The permittee is prohibited from discharging chemicals added for cooling tower maintenance which contain any of the 126 priority pollutants listed in 40 CFR Part 423 Appendix A.

Special Conditions Basis:
Before increasing the use of water treatment or chemical additives, the permittee is required to submit a written request at least 30 days in advance. The discharge of PCBs is prohibited.

Effective Date: 09/30/92 | Expiration Date: 07/31/97 | Abstract Date: 09/18/83

Facility Name: Northern States Power Company | Permit Number: MN0002186

Facility Description: Fossil Fuel Steam Electric Generating Plant | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	-	-	√	√

Abstract Information:
Complete; Outfalls 010 and 020.

Outfall: 010 | Receiving Water: Mississippi River | Treatment: Sed

Amount/Components:
2.3 MGD of cooling tower blowdown

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		continuous	grab
Other	N/A N/A	11540.000000 kg/d N/A	SO3 and SO4 total	1/week	24 hr composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	continuous	not given
TDS	N/A N/A	48988.000000 kg/d N/A		1/week	24 hr composite
Temp.	N/A N/A	N/A Report	See below	continuous	not given
TROs	N/A N/A	0.480000 kg/d 0.100000 mg/l	Cl TROs as Cl, see below	1/week	grab
TSS	585.000000 kg/d 30.000000 mg/l	1949.000000 kg/d 100.000000 mg/l		1/week	24 hr composite

Limitations/Monitoring Basis:
The discharge of chlorine, TRO expressed as chlorine, or bromine (TRO as chlorine) shall not exceed 2 hours/unit per 24 hour period or a total of 6 hours/day. The permittee is required to monitor the amount of time of chlorine or bromine application and report it with other monitoring reports. The limit for TROs shown above is associated with the use of chlorine. The limit for TROs from the use of bromine is 0.12 kg/d and 0.025 mg/l daily maximum. The discharge of heat to the river from the main condensers is prohibited. Heat may be discharged in the blowdown from the recirculated cooling water system provided it is retained for a minimum of 24 hours prior to discharge. The basis for the limitations and monitoring conditions was not provided.

Outfall: 020 | Receiving Water: Mississippi River | Treatment: None specified

Amount/Components:
5.05 MGD of cooling tower blowdown deicing water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		continuous	not given
Other	N/A N/A	11540.000000 kg/d N/A	SO3 and SO4 total	1/day	24 hr composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	continuous	not given
TDS	N/A N/A	48988.000000 kg/d N/A		1/day	24 hr composite
Temp.	N/A N/A	N/A 95.000000	See below; units: deg F	continuous	not given

Facility Name: Northern States Power Company						Permit Number: MN0002186
Facility Description: Fossil Fuel Steam Electric Generating Plant						SIC Code: 4931
TROs	N/A N/A		0.300000 kg/d 0.200000 mg/l	Cl TROs as Cl, see b elow	1/day	grab
TSS	N/A N/A	kg/d mg/l	1913.000000 kg/d 100.000000 mg/l		1/day	grab

Limitations/Monitoring Basis:
During the period November through March when icing occurs, the permittee is authorized to discharge through Outfall 020. Outfalls 010 and 020 may not operate simultaneously. Chlorination and bromination shall be minimized to the extent practicable and shall be limited to 2 hours/24 hour period. The permittee is required to report the frequency, duration, and flow of deicing dicharge events. All monitoring conditions apply only during discharge. The limit for TROs shown above is associated with the use of chlorine. The limit for TROs form the use of bromine is 0.08 kg/d and 0.05 mg/l daily maximum. When directly discharging cooling tower blowdown, daily grab samples are to be taken except for those monitored continuously, after the discharge occurs for greater than 12 hours duration. If the discharge occurs for less than 12 hours, the effort to grab a sample must be made consistent with the time of day and day of week, due to the unpredictable nature of the need for deicing the intake. The basis for the limitations and monitoring conditions was not provided.

Special Conditions Basis:
The permittee shall submit for approval, at least 120 days prior to abandonment of any ash disposal pond, a plan to provide a clay cap to minimize erosion and infiltration from the former disposal area. The permittee shall submit for approval at least 60 days prior to construction, plans for constructing holding ponds. The permittee is required to submit annual reports on ground water studies, river water quality, trace element and intake deice discharge studies. The permittee is required to request approval at least 30 days in advance of using water treatment or chemical additives. The discharge of PCBs is prohibited.

Effective Date: 09/30/92 **Expiration Date:** 09/30/97 **Abstract Date:** 09/14/93

Facility Name: SB Ft Tanning & City Red Wing	Permit Number: MN0038962
Facility Description: Leather Tanning & Finishing	SIC Code: 3111

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	√	-	√	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfalls 100 (A and B for abstracting purposes) and 200.

Outfall: 100A | Receiving Water: Hay Creek | Treatment: Scr, AS, Dis, PC

Amount/Components:
0.34 MGD treated wastewater from color and fat liquor retanning and finishing operations

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	24 hr fw composite
CBOD5	43.900000 kg/d N/A	133.500000 kg/d N/A		3/week	24 hr composite
Cr (T)	4.000000 kg/d N/A	11.700000 kg/d N/A		3/week	24 hr composite
Cr+6	N/A N/A	N/A Report	units not specified	1/month	grab
FC	N/A 200.000000	N/A N/A	See below; units:#/100 ml	3/week	grab
Flow	N/A N/A	N/A Report MGD		continuous	total
NH3 (T)	N/A N/A	N/A Report	units not specified	3/week	24 hr composite
O&G	17.600000 kg/d N/A	40.000000 kg/d N/A		3/week	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	continuous	not given
TRC	N/A N/A	N/A 0.100000 mg/l	See below	1/day	grab
TSS	52.700000 kg/d N/A	160.200000 kg/d N/A		3/week	24 hr composite

Limitations/Monitoring Basis:
The limitations and monitoring conditions for Outfall 100A apply to Outfall 20100 when daily production is less than or equal to 6189 sides per day. The FC limit applies from March 1 through October 31 and is a monthly geometric mean of 200 organisms per 100 ml. The TRC daily monitoring requirement does not apply on weekends and holidays. The TRC limit is applicable upon installation of dechlorination facilities. The CR+6 monitoring requirement is effective for the first 12 months after permit issuance. Acute WET tests are to be conducted using 3 species and 5 dilutions for the first year of the permit. If results indicate less than 50% mortality in 100% effluent, the testing is to be 1/month. The tests are to be conducted following the EPA guidance manual. The basis for the limitations and monitoring conditions was not provided.

Facility Name: SB Ft Tanning & City Red Wing | Permit Number: MN0038962

Facility Description: Leather Tanning & Finishing | SIC Code: 3111

Outfall: 100B | Receiving Water: Hay Creek | Treatment: Scr, AS, Dis, PC

Amount/Components:
0.34 MGD treated wastewater from color and fat liquor retanning and finishing operations

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	24 hr fw composite
CBOD5	82.300000 kg/d N/A	219.300000 kg/d N/A		3/week	24 hr composite
Cr (T)	4.900000 kg/d N/A	13.200000 kg/d N/A		3/week	24 hr composite
Cr+6	N/A N/A	N/A Report	units not specified	1/month	grab
FC	N/A 200.000000	N/A N/A	See below; units:#/100 ml	3/week	grab
Flow	N/A N/A	N/A Report MGD		continuous	total
NH3 (T)	N/A N/A	N/A Report	units not specified	3/week	24 hr composite
O&G	32.900000 kg/d N/A	65.900000 kg/d N/A		3/week	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	continuous	not given
TRC	N/A N/A	N/A 0.100000 mg/l	See below	1/day	grab
TSS	98.800000 kg/d N/A	263.500000 kg/d N/A		3/week	24 hr composite

Limitations/Monitoring Basis:
The limitations and monitoring conditions for Outfall 100B apply to Outfall 20100 when daily production is greater than 6189 sides per day. See the limitations and monitoring basis for Outfall 100A.

Outfall: 200 | Receiving Water: Hay Creek | Treatment: None

Amount/Components:
0.27 MGD noncontact cooling water

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		continuous	total
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/month	not given
Temp.	N/A N/A	N/A 86.000000	units: degrees Farenheit	1/month	grab

Limitations/Monitoring Basis:
The limitations and monitoring conditions shown above apply to Outfall 20200 and are limited to the discharge of noncontact cooling water and must be free from process and other wastewater discharges. The basis for theseconditions was not provided.

Facility Name: SB Ft Tanning & City Red Wing	Permit Number: MN0038962
Facility Description: Leather Tanning & Finishing	SIC Code: 3111

Special Conditions Basis:

The permit contains compliance schedules for dechlorination and sludge management. The permittee must submit plans (no later than 11/30/90) for dechlorination facilities. Operations are to commence by 5/31/91. A reportis to be submitted upon completion of construction and commencement of operation of dechlorination facilities. The permittee is required to submit a preliminary plan (no later than 1/31/91) for review and comment for thetemporary storage and final disposal of solids or sludge removed from the treatment system. A final plan is to be submitted within 180 days of the effective date of the permit. A temporary plan is due by 9/14/90, with implementation by 5/1/91. The permit contains a reopener based on the results of toxicity tests. The permit prohibits the discharge of PCBs.

Effective Date: 09/24/90	Expiration Date: 08/31/95	Abstract Date: 08/14/93

Facility Name: Piper Impact, Inc. | Permit Number: MS0000931

Facility Description: Cleaning and etching of metal parts | SIC Code: 3479

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	-	√	-	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	√

Abstract Information:
Complete; Outfall 001 (A and B created for abstracting purposes).

Outfall: 001A | Receiving Water: Jasper Creek | Treatment: Red, Floc, Neut, Sed

Amount/Components:
0.2261 MGD of process wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Ag (T)	0.510000 lb/d 0.240000 mg/l	0.920000 lb/d 0.430000 mg/l		1/year	grab
Al (soluble)	N/A N/A	3.190000 lb/d 1.690000 mg/l		1/year	grab
Al (T)	Report lb/d Report	Report lb/d Report	Conc. units not specified	1/year	24hr composite
BOD5	38.500000 lb/d Report	57.700000 lb/d Report	Conc. units not specified	1/week	24hr composite
Cd (T)	0.560000 lb/d 0.260000 mg/l	1.480000 lb/d 0.690000 mg/l		1/year	grab
Chronic WET	N/A N/A	N/A N/A	See below	1/year	24hr composite
CN (T)	1.370000 lb/d 0.650000 mg/l	2.570000 lb/d 1.200000 mg/l		1/year	grab
Cr (T)	1.070000 lb/d 0.500000 mg/l	2.140000 lb/d 1.000000 mg/l		1/week	24hr composite
Cr+6	0.107000 lb/d 0.050000 mg/l	0.214000 lb/d 0.100000 mg/l		1/week	24hr composite
Cu (T)	1.070000 lb/d 0.500000 mg/l	2.140000 lb/d 1.000000 mg/l		1/week	24hr composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
Ni (T)	1.070000 lb/d 0.500000 mg/l	2.140000 lb/d 1.000000 mg/l		1/week	24hr composite
P (T)	10.700000 lb/d 5.000000 mg/l	21.400000 lb/d 10.000000 mg/l		1/week	24hr composite
Pb (T)	0.430000 lb/d 0.200000 mg/l	1.070000 lb/d 0.500000 mg/l		1/week	24hr composite
pH	N/A Report	N/A Report	Between 6.0 su and 8.5 su	1/week	grab
TSS	64.200000 lb/d 30.000000 mg/l	128.300000 lb/d 60.000000 mg/l		1/week	24hr composite
TTOs	N/A N/A	N/A 2.130000 mg/l		1/year	grab

Facility Name: Piper Impact, Inc. | Permit Number: MS0000931

Facility Description: Cleaning and etching of metal parts | SIC Code: 3479

Zn (T)	1.070000 lb/d 0.500000 mg/l	2.140000 lb/d 1.000000 mg/l		1/week	24hr composite

Limitations/Monitoring Basis:
Outfall 001A was created for abstracting purposes to represent limitations effective from 07/09/91 through 02/04/92. The bases for Al (T) and pH limits were not described. Al (soluble) limits are WQ-based. The remaining pollutant limits are continued from the existing permit and are consistent with ELGs for the metal finishing category (40 CFR Part 433, Subpart A). Monitoring for BOD5 must be conducted only when the magnesium cleaning line is in operation. Mass limits are derived using the 30 day max. flow of 0.2261 MGD from the 2C permit application. A chronic WET limit is set requiring the 48hr LC50 to be greater than 44%. Chronic WET testing is required in accordance with EPA guidance manual procedures; 2 species are specified but one species may be used if the permittee demonstrates this to be the most sensitive. Retesting within 2 weeks is required if toxicity is found. Monitoring is specified regularly for flow and at sufficient frequency for other pollutants to ensure compliance with permit conditions.

Outfall: 001B | Receiving Water: Jasper Creek | Treatment: Red, Floc, Neut, Sed

Amount/Components:
0.2261 MGD of process wastewater.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Ag (T)	N/A N/A	0.047000 lb/d 0.025000 mg/l		1/year	grab
Al (S)	0.380000 lb/d 0.200000 mg/l	3.190000 lb/d 1.690000 mg/l		1/year	24hr composite
Al (T)	Report lb/d Report	Report lb/d Report	Conc. units not specified	1/year	24hr composite
BOD5	33.940000 lb/d Report	50.910000 lb/d Report	Conc. units not specified	1/week	24hr composite
Cd (T)	N/A N/A	0.032000 lb/d 0.017000 mg/l		1/year	grab
Chronic WET	N/A N/A	N/A N/A	See below	1/year	24hr composite
CN (T)	N/A N/A	0.094000 lb/d 0.050000 mg/l		1/year	grab
Cr (T)	0.940000 lb/d 0.500000 mg/l	1.890000 lb/d 1.000000 mg/l		1/week	24hr composite
Cr+6	0.047000 lb/d 0.025000 mg/l	0.070000 lb/d 0.036000 mg/l		1/week	24hr composite
Cu (T)	0.083000 lb/d 0.044000 mg/l	0.132000 lb/d 0.070000 mg/l		1/week	24hr composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
Ni (T)	0.940000 lb/d 0.500000 mg/l	1.860000 lb/d 1.000000 mg/l		1/week	24hr composite
P (T)	9.430000 lb/d 5.000000 mg/l	18.860000 lb/d 10.000000 mg/l		1/week	24hr composite
Pb (T)	0.028000 lb/d 0.015000 mg/l	0.741000 lb/d 0.393000 mg/l		1/week	24hr composite
pH	N/A Report	N/A Report	Between 6.0 su and 8.5 su	1/week	grab
TSS	56.600000 lb/d 30.000000 mg/l	113.100000 lb/d 60.000000 mg/l		1/week	24hr composite
TTOs	N/A N/A	N/A 2.130000 mg/l		1/year	grab

Facility Name: Piper Impact, Inc.					Permit Number: MS0000931
Facility Description: Cleaning and etching of metal parts					SIC Code: 3479
Zn (T)	0.940000 lb/d 0.396000 mg/l	0.826000 lb/d 0.438000 mg/l		1/week	24hr composite

Limitations/Monitoring Basis:
Outfall 001B was created for abstracting purposes to represent limitations effective from 02/04/92 through 07/08/96. Limitations at 001B reflect the final WQ-based limits for Cd (T), Cr+6, Cu (T), Pb (T), Ag (T), CN (T),and Al (soluble). The remaining limits and monitoring requirements and their bases are the same as described under Outfall 001A.

Special Conditions Basis:
The permittee must provide a schedule of TRE implementation if the State determines the discharge to be toxic to the receiving stream. A solvent management plan must be submitted within 60 days; upon approval, the permittee must certify to its implementation each month by reporting a specified statement concerning managing TTOs in the comment section of DMRs. Other special conditions include requirements for : (1) notification within 9 days of closure or abandonement of the facility; and (2) notification 60 days prior to introducing cooling and boiler water additives.

Effective Date: 07/09/91 Expiration Date: 07/08/96 Abstract Date: 06/01/93

Facility Name: Bryan Foods, Inc. | Permit Number: MS0001783

Facility Description: Slaughter and processing of pork products | SIC Code: 2013

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	-	-	-	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfall 001 (A and B created for abstracting purposes).

Outfall: 001A | Receiving Water: Unnamed trib. to Town Creek | Treatment: AnL+AS+Dis

Amount/Components:
0.04 MGD sanitary wastewater, 0.04 MGD cooling water, 1.33 MGD process wastewater, and 0.84 MGD boiler blowdown.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	225.000000 lb/d 15.000000 mg/l	450.000000 lb/d 30.000000 mg/l		1/week	24hr composite
FC	N/A Report	N/A 400.000000	Units: #/100 ml	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	record
NH3-N	90.000000 lb/d 6.000000 mg/l	180.000000 lb/d 12.000000 mg/l		1/week	24hr composite
O&G	150.000000 lb/d 10.000000 mg/l	300.000000 lb/d 20.000000 mg/l		1/week	24hr composite
pH	N/A Report	N/A Report	Between 6.0 su and 8 .5 su	1/week	grab
TRC	N/A N/A	N/A N/A	Not greater than 0.5 mg/l	1/week	grab
TSS	465.000000 lb/d Report mg/l	930.000000 lb/d Report mg/l		1/week	24hr composite

Limitations/Monitoring Basis:
Outfall 001A was created for abstracting purposes to represent those limitations effective from 03/27/90 through 09/30/92. All limits except TSS are WQ-based. TSS limits are ELG-based in accordance with the meat products processing category (40 CFR Part 432, Subpart D). Mass limits are derived using the daily average flow of 1.8 mgd. NH-3 and TRC were found to be at chronically toxic levels; a schedule for achieving the stringent WQ-based limits is provided. Monitoring is specified regularly for flow and at sufficient frequency for other pollutants to ensure compliance with permit conditions.

Outfall: 001B | Receiving Water: Unnamed trib. to Town Creek | Treatment: AnL+AS+Dis

Amount/Components:
0.04 MGD sanitary wastewater, 0.04 MGD cooling water, 1.33 MGD process wastewater, and 0.84 MGD boiler blowdown.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	225.000000 lb/d 15.000000 mg/l	450.000000 lb/d 30.000000 mg/l		1/week	24hr composite
FC	N/A Report	N/A 400.000000	Units:#/100 ml; see below	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	record
NH3-N	30.000000 lb/d 2.000000 mg/l	45.000000 lb/d 3.000000 mg/l		1/week	24hr composite

Facility Name: Bryan Foods, Inc. **Permit Number:** MS0001783

Facility Description: Slaughter and processing of pork products **SIC Code:** 2013

O&G	150.000000 lb/d 10.000000 mg/l	300.000000 lb/d 20.000000 mg/l		1/week	24hr composite
pH	N/A Report	N/A Report	Between 6.0 su and 8 .5 su	1/week	grab
TRC	N/A N/A	N/A N/A	Not greater than 0.0 11 mg	1/week	grab
TSS	465.000000 lb/d Report mg/l	930.000000 lb/d Report mg/l		1/week	24hr composite

Limitations/Monitoring Basis:
Outfall 001B was created for abstracting purposes to represent those limitations effective from 10/01/92 through 03/26/95. Limitations at 001B reflect the final WQ-based limits for NH-3 and TRC. The basis of the limitations and monitoring requirements is as described at Outfall 001A. The FC limit shown above applies May through October. The FC limits that apply November through April are 4000 #/100 ml.

Special Conditions Basis:
Within 120 days, a schedule for compliance including final limitations (for Outfall 001B) is required to be submitted; compliance must be achieved by 10/1/92. Other special conditions include requirements for 1) notification within 90 days of closure or abandonement of the facility, and 2) notification 60 days prior to introducing cooling and boiler water additives.

Effective Date: 03/27/90 Expiration Date: 03/26/95 Abstract Date: 06/01/93

Facility Name: Kimberly-Clark, Corinth Mills | Permit Number: MS0035882

Facility Description: Non-woven fabric manufacturer | SIC Code: 2297

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	-	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfalls 001, 002, and 003.

Outfall: 001 | Receiving Water: Unnamed tribs. to Sevenmile Cr | Treatment: AS+EQ+Floc+Dis+Stab+Neut+DeCl

Amount/Components:

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	12.550000 lb/d 35.000000 mg/l	18.830000 lb/d 52.500000 mg/l	Seasonal; see below	2/month	24hr composite
DO	N/A N/A	N/A N/A	not < 6.0 mg/l; see below	2/month	grab
FC	N/A 456.000000	N/A 912.000000	Units:#/100 ml; see below	2/month	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	record
NH3-N	1.080000 lb/d 3.000000 mg/l	1.610000 lb/d 4.500000 mg/l	Seasonal; see below	2/month	24hr composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	2/month	grab
Temp.	N/A Report	N/A 95.000000	units: degrees Faren heit	2/month	grab
TRC	N/A 0.050000 mg/l	N/A 0.075000 mg/l		2/month	grab
TSS	19.540000 lb/d Report	29.320000 lb/d Report	Conc. units not spec ified	2/month	24hr composite

Limitations/Monitoring Basis:
Seasonal limits are provided for NH3-N, BOD5, and FC. Limits shown in the table above are effective from May 1 to October 31. Winter limits are effective from Nov. 1 to Apr. 30 and are as follows: for NH3-N, 1.79 lb/d and 5 mg/l daily average, and 2.69 lb/d and 7.5 mg/l daily maximum; for BOD5,15.06 lb/d and 42 mg/l daily average, and 22.59 lb/d and 63 mg/l daily maximum; for FC, 8636/100 ml daily average, and 17272/100 ml daily maximum. Limits for NH3-N, BOD5, FC, DO, and TRC are WQ-based in accordance with State water quality criteria. Except for DO, these limits are not consistent with those set forth in the fact sheet. Seasonal limits have been setforth for FC due to the higher probability of recreational contact during summer. Seasonal limits are set forth for NH3-N since its toxicity is greater at higher temperatures. TSS limits are based on the long term average reported in the permit application; these limits are not consistent with those set forth in the fact sheet. pH limits are ELG-based consistent with the textile manufacturing category (40 CFR Part 410, Subpart H). ELG-based limits for sulfide, phenols, and Cr (T), are not being included in the permit since they do not pose a threat to water quality. The omission of the COD ELG-based limit was not discussed. Temp., pH, and DO monitoringmay be conducted after commingling of 001 and 002. Monitoring is specified regularly for flow and at sufficient frequency for other pollutants to ensure compliance with permit conditions.

Facility Name: Kimberly-Clark, Corinth Mills | Permit Number: MS0035882

Facility Description: Non-woven fabric manufacturer | SIC Code: 2297

Outfall: 002 | Receiving Water: Unnamed tribs. to Sevenmile Cr | Treatment: Not specified.

Amount/Components:
0.111 MGD of treated sand filter backwash, boiler blowdown, and cooling tower blowdown.

	Limitations			Monitoring Requirements	
Parameter	daily Average	daily Maximum	Other	Frequency	Sample Type
Cu	N/A N/A	N/A N/A	See below	2/month	24hr composite
DO	N/A N/A	N/A N/A	Not less than 6.0 mg /l	2/month	grab
Flow	N/A Report MGD	N/A Report MGD	See below	continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	2/month	grab
Temp.	N/A Report	N/A 95.000000	units: degrees Faren heit	2/month	grab

Limitations/Monitoring Basis:
The temp. limit is continued from the previous permit. Limits for pH are set consistent with those at Outfall 001. Cu monitoring is required due to the concentrations found as part of the permit application. Cu monitoring is required for 6 months after which data will be evaluated to determine the need for continued monitoring, the establishment of limitations, or discontinuing monitoring. Except for flow, monitoring at Outfall 002 must be conducted after commingling with Outfall 001. Monitoring is specified regularly for flow and at sufficient frequency for other pollutants to ensure compliance with permit conditions.

Outfall: 003 | Receiving Water: Unnamed tribs. to Sevenmile Cr | Treatment: Not specified.

Amount/Components:
0.0155 MGD avg. of noncontact cooling water and 6.46 MGD max. of manufacturing area storm water runoff.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A N/A	N/A N/A	See below	2/month	grab
Flow	N/A Report MGD	N/A Report MGD	See below	2/month	instantaneous
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		2/month	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	2/month	grab

Limitations/Monitoring Basis:
O&G limits are based on research indicating that oil sheens are not visible to the limited concentrations. Limits for pH are set consistent with those at Outfall 001. BOD5 monitoring is required due to the concentrations found as part of the permit application. BOD5 monitoring is required for 6 months after which data will be evaluated to determine the need for continuing monitoring, the establishment of limitations, or discontinuing monitoring. Flow may be estimated until a mechanism for flow measurement is installed. Monitoring is specified regularly for flow and at sufficient frequency for other pollutants to ensure compliance with permit conditions.

Special Conditions Basis:
Special conditions include requirements for 1) notification within 90 days of closure or abandonement of the facility; and 2) notification 60 days prior to introducing cooling and boiler water additives. A reopener clause is based on promulgation of effluent standards, limitations, or regulations that control pollutants not listed in the permit or more stringent limitations.

Effective Date: 11/26/91 | Expiration Date: 11/25/96 | Abstract Date: 06/01/93

Facility Name: Greenville Manufacturing, Inc. | Permit Number: MS0047759

Facility Description: Knit outerwear textile mill | SIC Code: 2254

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	-	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfall 001 (A, B, and C created for abstracting purposes).

Outfall: 001A | Receiving Water: Mississippi River | Treatment: Scr+AS+AL

Amount/Components:
2.75 MGD of treated process wastewater, well water treatment wastewater, sanitary wastewater, and boiler blowdown.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	380.000000 lb/d Report mg/l	780.000000 lb/d Report mg/l		1/week	24hr composite
Chloride	N/A N/A	N/A N/A	chlorides, see below	1/month	24 hr composite
COD	6200.000000 lb/d Report mg/l	9620.000000 lb/d Report mg/l		1/week	24hr composite
Cr (T)	10.000000 lb/d Report mg/l	20.000000 lb/d Report mg/l		1/week	24hr composite
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml; seasonal	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	record
pH	N/A N/A	N/A N/A	Between 6.5 su and 9.0 su	2/month	grab
Phenols	10.000000 lb/d Report mg/l	20.000000 lb/d Report mg/l		1/week	grab
Sulfide	20.000000 lb/d Report mg/l	40.000000 lb/d Report mg/l		1/week	grab
TDS	N/A N/A	N/A N/A	See below	1/month	24hr composite
TRC	N/A Report mg/l	N/A 0.500000 mg/l	If any chlorine used	1/week	grab
TSS	1180.000000 lb/d Report mg/l	2640.000000 lb/d Report mg/l		1/week	24hr composite

Limitations/Monitoring Basis:
Outfall 001A was established for abstracting purposes to represent those limitations based upon a production rate of 200,000 lb/d and lasting from 12/15/92 through 06/30/93. Limitations for FC are seasonal based on WQ; limits contained above are effective from May through Oct. (summer) and limits of 2000/100 ml daily avg. and 4000/100 ml daily max. are effective from Nov. through Apr. (winter). Mass limits at Outfall 001A are derived using a production rate of 200,000 lb/d. Plant production must be calculated each day and reported on DMRs as a daily average; this is necessary to ensure treatment efficiency. pH and FC limits are WQ-based in accordance with State water quality criteria. TRC limits are set because of the potential to disinfect the discharge to meet FC limits. The FC limits shown above are applicable May through October. The November through April limits are 200/100 ml daily average and 400/100 ml daily maximum. The TRC limits are set based on BPJ that there will be no exceedance of instream toxicity criteria. The remaining limits are ELG-based consistent with NSPS for the textile manufacturing category (40 CFR Part 410; Subpart E). Monitoring for TDS and chlorides is required until sufficient data is collected which demonstrates no exceedances of water quality. Monitoring is specified regularly for flow and at sufficient frequency for other pollutants to ensure compliance with permit conditions.

Facility Name: Greenville Manufacturing, Inc. | Permit Number: MS0047759

Facility Description: Knit outerwear textile mill | SIC Code: 2254

Outfall: 001B | Receiving Water: Mississippi River | Treatment: Scr+AS+AL

Amount/Components:
2.75 MGD of treated process wastewater, well water treatment wastewater, sanitary wastewater, and boiler blowdown.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	532.000000 lb/d Report mg/l	1008.000000 lb/d Report mg/l		1/week	24hr composite
Chloride	N/A N/A	N/A N/A	see below	1/month	24 hr composite
COD	8680.000000 lb/d Report mg/l	13468.000000 lb/d Report mg/l		1/week	24hr composite
Cr (T)	14.000000 lb/d Report mg/l	28.000000 lb/d Report mg/l		1/week	24hr composite
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml; sea sonal	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	record
pH	N/A N/A	N/A N/A	Between 6.5 su and 9 .0 su	2/month	grab
Phenols	14.000000 lb/d Report mg/l	28.000000 lb/d Report mg/l		1/week	grab
Sulfide	28.000000 lb/d Report mg/l	56.000000 lb/d Report mg/l		1/week	grab
TDS	N/A N/A	N/A N/A	see below	1/month	24 hr composite
TRC	N/A Report mg/l	N/A 0.500000 mg/l	If any chlorine used	1/week	grab
TSS	1652.000000 lb/d Report mg/l	3696.000000 lb/d Report mg/l		1/week	24hr composite

Limitations/Monitoring Basis:
Outfall 001B was established for abstracting purposes to represent those limitations based upon a production rate of 280,000 lb/d and lasting from 07/01/93 through 12/31/94. The bases for the limitations and monitoring conditions are the same as described at Outfall 001A.

Outfall: 001C | Receiving Water: Mississippi River | Treatment: Scr+AS+AL

Amount/Components:
2.75 MGD of treated process wastewater, well water treatment wastewater, sanitary wastewater, and boiler blowdown.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	684.000000 lb/d Report mg/l	1296.000000 lb/d Report mg/l		1/week	24hr composite
COD	11160.000000 lb/d Report mg/l	17316.000000 lb/d Report mg/l		1/week	24hr composite
Cr (T)	18.000000 lb/d Report mg/l	36.000000 lb/d Report mg/l		1/week	24hr composite
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml; sea sonal	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	record

Facility Name: Greenville Manufacturing, Inc. Permit Number: MS0047759

Facility Description: Knit outerwear textile mill SIC Code: 2254

pH	N/A N/A	N/A N/A	Between 6.5 su and 9 .0 su	2/month	grab
Phenols	18.000000 lb/d Report mg/l	36.000000 lb/d Report mg/l		1/week	grab
Sulfide	36.000000 lb/d Report mg/l	72.000000 lb/d Report mg/l		1/week	grab
TRC	N/A Report mg/l	N/A 0.500000 mg/l	If any chlorine used	1/week	grab
TSS	2124.000000 lb/d Report mg/l	4752.000000 lb/d Report mg/l		1/week	24hr composite

Limitations/Monitoring Basis:
Outfall 001C was established for abstracting purposes to represent those limitations based upon a production rate of 360,000 lb/d and lasting from 01/01/95 through 12/14/97. The bases for the limitations and monitoring conditions are the same as described at Outfall 001A, except that the reporting of plant production may be discontinued once the scheduled production rate has been achieved.

Special Conditions Basis:
A schedule of compliance is set requiring the submission of plans and specifications by 11/30/92, "as built" specifications within 60 days of system completion, and a Form 2C application within 180 days of discharge initiation. This schedule is set forth since certain actions are necessary to satisfy State and Federal regulations. Progress reports are required within 10 days of each schedule milestone. Compliance dates for each tier of limits are also set based on the projected production schedule. Other special conditions include requirements for : 1) notification within 90 days of closure or abandonement of the facility; 2) notification 60 days prior to introducing cooling and boiler additives; 3) the use of multiple pipe diffusion for discharges to the Mississippi River; and 4) sludge disposal include specifications of a dike/berm enclosure and the submittal of sludgemonitoring data after the first occurrence of land applications.

Effective Date: 12/15/92 Expiration Date: 12/14/97 Abstract Date: 06/01/93

Facility Name: Hoechst Celanese Corp. | Permit Number: NC0004952

Facility Description: Manufacturers polyester resins | SIC Code: 2821

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	-

Abstract Information:
Complete; Outfalls 001 (A and B for abstracting purposes) and 002.

Outfall: 001A | Receiving Water: Buffalo Creek | Treatment: AS

Amount/Components:
Unspecified amount of process and domestic wastewater.

Parameter	Limitations			Monitoring Requirements	
	Average	Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	grab
1,1,2-Trichloroethane	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethane	0.053000 lb/d N/A	0.143000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethylene	0.039000 lb/d N/A	0.060000 lb/d N/A		1/quarter	24 hr fw composite
1,2,4-Trichlorobenzene	0.164000 lb/d N/A	0.339000 lb/d N/A		1/quarter	24 hr fw composite
1,2-Dichlorobenzene	0.186000 lb/d N/A	0.394000 lb/d N/A		1/quarter	24 hr fw composite
1,2-Dichloroethane	0.122000 lb/d N/A	0.447000 lb/d N/A		1/quarter	grab
1,2-Dichloropropane	0.370000 lb/d N/A	0.556000 lb/d N/A		1/quarter	Grab
1,2-Trans-Dichloroethylene	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	24 hr fw composite
1,3-Dichlorobenzene	0.075000 lb/d N/A	0.106000 lb/d N/A		1/quarter	24 hr fw composite
1,3-Dichloropropene	0.070000 lb/d N/A	0.106000 lb/d N/A		1/quarter	24 hr fw composite
1,4-Dichlorobenzene	0.036000 lb/d N/A	0.068000 lb/d N/A		1/quarter	24 hr fw composite
2,4-Dichlorophenol	0.010000 lb/d N/A	0.010000 lb/d N/A		1/quarter	24 hr fw composite
2,4-Dimethylphenol	0.044000 lb/d N/A	0.087000 lb/d N/A		1/quarter	24 hr fw composite
2,4-Dinitrophenol	0.172000 lb/d N/A	0.297000 lb/d N/A		1/quarter	24 hr fw composite
2,4-Dinitrotoluene	0.129000 lb/d N/A	0.129000 lb/d N/A		1/quarter	24 hr fw composite
2,6-Dinitrotoluene	0.617000 lb/d N/A	1.550000 lb/d N/A		1/quarter	24 hr fw composite
2-Chlorophenol	0.011000 lb/d N/A	0.011000 lb/d N/A		1/quarter	24 hr fw composite

2-Nitrophenol	0.099000 lb/d N/A	0.167000 lb/d N/A		1/quarter	24 hr fw composite
3,4-Benzofluoranthene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
4,6-Dinitro-o-cresol	0.189000 lb/d N/A	0.670000 lb/d N/A		1/quarter	24 hr fw composite
4-Nitrophenol	0.174000 lb/d N/A	0.300000 lb/d N/A		1/quarter	24 hr fw composite
Acenaphthene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Acenaphthylene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Acrylonitrile	0.069000 lb/d N/A	0.069000 lb/d N/A		1/quarter	grab
Anthracene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Benzene	0.089000 lb/d N/A	0.132000 lb/d N/A		1/quarter	grab
Benzo (a) anthracene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Benzo (a) pyrene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Benzo (k) fluoranthane	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Bis (2-chlorisopropyl) ether	0.728000 lb/d N/A	1.831000 lb/d N/A		1/quarter	Grab
Bis (2-ethylhexyl) phthalate	0.249000 lb/d N/A	0.675000 lb/d N/A		1/quarter	24 hr fw composite
BOD5	275.000000 lb/d N/A	530.000000 lb/d N/A	See below	1/day	24 hr fw composite
Carbon tetrachloride	0.044000 lb/d N/A	0.092000 lb/d N/A		1/quarter	grab
Chlorobenzene	0.036000 lb/d N/A	0.068000 lb/d N/A		1/quarter	grab
Chloroethane	0.252000 lb/d N/A	0.648000 lb/d N/A		1/quarter	Grab
Chloroform	0.051000 lb/d N/A	0.111000 lb/d N/A		1/quarter	Grab
Chronic WET	N/A N/A	N/A Report		1/quarter	24 hr fw composite
Chrysene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
CN (T)	0.515000 lb/d N/A	0.515000 lb/d N/A		1/quarter	24 hr fw composite
Cr (T)	2.685000 lb/d N/A	5.154000 lb/d N/A		1/quarter	24 hr fw composite
Cu (T)	1.016000 lb/d N/A	8.175000 lb/d N/A		1/quarter	24 hr fw composite
Di-n-butyl phthalate	0.065000 lb/d N/A	0.138000 lb/d N/A		1/quarter	24 hr fw composite

Facility Name: Hoechst Celanese Corp. Permit Number: NC0004952

Facility Description: Manufacturers polyester resins SIC Code: 2821

Diethyl phthalate	0.196000 lb/d N/A	0.491000 lb/d N/A		1/quarter	24 hr fw composite
Dimethyl phthalate	0.046000 lb/d N/A	0.114000 lb/d N/A		1/quarter	24 hr fw composite
Ethylbenzene	0.077000 lb/d N/A	0.261000 lb/d N/A		1/quarter	Grab
FC	N/A 200.000000 mg/l	N/A 400.000000 mg/l		1/week	grab
Flow	N/A 0.800000 MGD	N/A N/A		Continuous	Record
Fluoranthene	0.060000 lb/d N/A	0.164000 lb/d N/A		1/quarter	24 hr fw composite
Fluorene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Hexachlorobenzene	0.001000 lb/d N/A	0.001000 lb/d N/A		1/quarter	24 hr fw composite
Hexachlorobutadiene	0.048000 lb/d N/A	0.119000 lb/d N/A		1/quarter	24 hr fw composite
Hexachloroethane	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	24 hr fw composite
Methyl chloride	0.208000 lb/d N/A	0.460000 lb/d N/A		1/quarter	24 hr fw composite
Methylene chloride	0.097000 lb/d N/A	0.215000 lb/d N/A		1/quarter	Grab
Naphthalene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Ni (T)	2.779000 lb/d N/A	2.779000 lb/d N/A		1/quarter	24 hr fw composite
Nitrobenzene	0.065000 lb/d N/A	0.164000 lb/d N/A		1/quarter	24 hr fw composite
O&G	N/A N/A	N/A Report	Units not specified	1/quarter	grab
P (T)	N/A N/A	N/A Report	Units not specified	2/year	24 hr fw composite
Pb (T)	0.774000 lb/d N/A	1.669000 lb/d N/A		1/quarter	24 hr fw composite
pH	N/A N/A	N/A Report	Between 6.0 SU and 9.0 SU	1/day	grab
Phenanthrene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Phenol	0.036000 lb/d N/A	0.063000 lb/d N/A		1/quarter	Grab
Pyrene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Tetrachloroethylene	0.039000 lb/d N/A	0.089000 lb/d N/A		1/quarter	24 hr fw composite
Toluene	0.063000 lb/d N/A	0.193000 lb/d N/A		1/quarter	Grab
TON	N/A N/A	N/A Report		2/year	24 hr fw composite

Facility Name: Hoechst Celanese Corp. Permit Number: NC0004952

Facility Description: Manufacturers polyester resins SIC Code: 2821

Trichloroethylene	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	Grab
TSS	520.000000 lb/d N/A	975.000000 lb/d N/A		1/day	24 hr fw composite
Vinyl chloride	0.222000 lb/d N/A	0.222000 lb/d N/A		1/quarter	Grab
Zn (T)	2.540000 lb/d N/A	6.313000 lb/d N/A		1/quarter	24 hr fw composite

Limitations/Monitoring Basis:
The limitations shown for Outfall 001 in the abstract for 001A apply from the permit effective date until 9/30/94. The limits for BOD5, pH and TSS were calculated using ELGs in 40 CFR Part 414.31 Subpart C and Part 414.41 Subpart D, as well as BPJ to account for domestic wastewater, groundwater remeditation and boiler water treatment. The FC limit is based on State WQSs and the fact that the waste is 19% domestic wastewater in a 23:1 dilution. The remaining pollutant analysis is required of all major OCPSF facilities and represents 40 CFR Part 414.91 Subpart I guidelines. Twenty of the parameters are water quality limited. The basis for the monitoring requirements was not provided. The BOD5 limit is to be measured by maintaining temp. at 20 degrees C. The permit prohibits the discharge of floating solids or visible foam in other than trace amounts. If the effluent pH is outside the specified range, the permittee is required to monitor the pH upstream and downstream. Total phenolic compounds are prohibited from exceeding 0.344 lb/day. Chronic WET testing is to be conducted following State guidance using Ceriodaphnia. Compliance is defined as no observable inhibition of reproduction or significant mortality at effluent concentration of 6.5%. Should any test fail, the permittee is required to conduct monthly testing. Upon passing, quarterly testing may be resumed.

Outfall: 001B | Receiving Water: Buffalo Creek | Treatment: AS

Amount/Components:
Unspecified amount of process and domestic wastewater.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	grab
1,1,2-Trichloroethane	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethane	0.053000 lb/d N/A	0.143000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethylene	0.039000 lb/d N/A	0.060000 lb/d N/A		1/quarter	24 hr fw composite
1,2,4-Trichlorobenzene	0.164000 lb/d N/A	0.339000 lb/d N/A		1/quarter	24 hr fw composite
1,2-Dichlorobenzene	0.186000 lb/d N/A	0.394000 lb/d N/A		1/quarter	24 hr fw composite
1,2-Dichloroethane	0.122000 lb/d N/A	0.447000 lb/d N/A		1/quarter	grab
1,2-Dichloropropane	0.370000 lb/d N/A	0.556000 lb/d N/A		1/quarter	Grab
1,2-Trans-Dichloroethylene	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	24 hr fw composite
1,3-Dichlorobenzene	0.075000 lb/d N/A	0.106000 lb/d N/A		1/quarter	24 hr fw composite
1,3-Dichloropropene	0.070000 lb/d N/A	0.106000 lb/d N/A		1/quarter	24 hr fw composite
1,4-Dichlorobenzene	0.036000 lb/d N/A	0.068000 lb/d N/A		1/quarter	24 hr fw composite
2,4-Dichlorophenol	0.010000 lb/d N/A	0.010000 lb/d N/A		1/quarter	24 hr fw composite

Facility Name: Hoechst Celanese Corp. Permit Number: NC0004952

Facility Description: Manufacturers polyester resins SIC Code: 2821

2,4-Dimethylphenol	0.044000 lb/d N/A	0.087000 lb/d N/A		1/quarter	24 hr fw composite
2,4-Dinitrophenol	0.172000 lb/d N/A	0.297000 lb/d N/A		1/quarter	24 hr fw composite
2,4-Dinitrotoluene	0.129000 lb/d N/A	0.129000 lb/d N/A		1/quarter	24 hr fw composite
2,6-Dinitrotoluene	0.617000 lb/d N/A	1.550000 lb/d N/A		1/quarter	24 hr fw composite
2-Chlorophenol	0.011000 lb/d N/A	0.011000 lb/d N/A		1/quarter	24 hr fw composite
2-Nitrophenol	0.099000 lb/d N/A	0.167000 lb/d N/A		1/quarter	24 hr fw composite
3,4-Benzofluoranthene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
4,6-Dinitro-o-cresol	0.189000 lb/d N/A	0.670000 lb/d N/A		1/quarter	24 hr fw composite
4-Nitrophenol	0.174000 lb/d N/A	0.300000 lb/d N/A		1/quarter	24 hr fw composite
Acenaphthene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Acenaphthylene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Acrylonitrile	0.069000 lb/d N/A	0.069000 lb/d N/A		1/quarter	grab
Anthracene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Benzene	0.089000 lb/d N/A	0.132000 lb/d N/A		1/quarter	grab
Benzo (a) anthracene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Benzo (a) pyrene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Benzo (k) fluoranthene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Bis (2-chloroisopropyl) ether	0.728000 lb/d N/A	1.831000 lb/d N/A		1/quarter	Grab
Bis (2-ethylhexyl) phthalate	0.249000 lb/d N/A	0.675000 lb/d N/A		1/quarter	24 hr fw composite
BOD5	85.500000 lb/d N/A	212.200000 lb/d N/A		1/day	24 hr fw composite
Carbon tetrachloride	0.044000 lb/d N/A	0.092000 lb/d N/A		1/quarter	grab
Chlorobenzene	0.036000 lb/d N/A	0.068000 lb/d N/A		1/quarter	grab
Chloroethane	0.252000 lb/d N/A	0.648000 lb/d N/A		1/quarter	Grab
Chloroform	0.051000 lb/d N/A	0.111000 lb/d N/A		1/quarter	Grab
Chronic WET	N/A N/A	N/A Report		1/quarter	24 hr fw composite

Facility Name: Hoechst Celanese Corp. | Permit Number: NC0004952

Facility Description: Manufacturers polyester resins | SIC Code: 2821

Chrysene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
CN (T)	0.515000 lb/d N/A	0.515000 lb/d N/A		1/quarter	24 hr fw composite
Cr (T)	2.685000 lb/d N/A	5.154000 lb/d N/A		1/quarter	24 hr fw composite
Cu (T)	1.016000 lb/d N/A	8.175000 lb/d N/A		1/quarter	24 hr fw composite
Di-n-butyl phthalate	0.065000 lb/d N/A	0.138000 lb/d N/A		1/quarter	24 hr fw composite
Diethyl phthalate	0.196000 lb/d N/A	0.491000 lb/d N/A		1/quarter	24 hr fw composite
Dimethyl phthalate	0.046000 lb/d N/A	0.114000 lb/d N/A		1/quarter	24 hr fw composite
Ethylbenzene	0.077000 lb/d N/A	0.261000 lb/d N/A		1/quarter	Grab
FC	N/A 200.000000	N/A 400.000000	Units:#/100 ml	1/week	Grab
Flow	N/A 0.800000 MGD	N/A N/A		Continuous	Record
Fluoranthene	0.060000 lb/d N/A	0.164000 lb/d N/A		1/quarter	24 hr fw composite
Fluorene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Hexachlorobenzene	0.001000 lb/d N/A	0.001000 lb/d N/A		1/quarter	24 hr fw composite
Hexachlorobutadiene	0.048000 lb/d N/A	0.119000 lb/d N/A		1/quarter	24 hr fw composite
Hexachloroethane	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	24 hr fw composite
Methyl chloride	0.208000 lb/d N/A	0.460000 lb/d N/A		1/quarter	24 hr fw composite
Methylene chloride	0.097000 lb/d N/A	0.215000 lb/d N/A		1/quarter	Grab
Naphthalene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Ni (T)	2.779000 lb/d N/A	2.779000 lb/d N/A		1/quarter	24 hr fw composite
Nitrobenzene	0.065000 lb/d N/A	0.164000 lb/d N/A		1/quarter	24 hr fw composite
O&G	N/A N/A	N/A Report	Units not specified	1/quarter	grab
P (T)	N/A N/A	N/A Report	Units not specified	2/year	24 hr fw composite
Pb (T)	0.774000 lb/d N/A	1.669000 lb/d N/A		1/quarter	24 hr fw composite
pH	N/A N/A	N/A Report	Between 6.0 SU and 9.0 SU	1/day	grab
Phenanthrene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite

Facility Name: Hoechst Celanese Corp. | Permit Number: NC0004952

Facility Description: Manufacturers polyester resins | SIC Code: 2821

Phenol	0.036000 lb/d N/A	0.063000 lb/d N/A		1/quarter	Grab
Pyrene	0.003000 lb/d N/A	0.003000 lb/d N/A		1/quarter	24 hr fw composite
Tetrachloroethylene	0.039000 lb/d N/A	0.089000 lb/d N/A		1/quarter	24 hr fw composite
Toluene	0.063000 lb/d N/A	0.193000 lb/d N/A		1/quarter	Grab
TOH	N/A N/A	N/A Report		2/year	24 hr fw composite
Trichloroethylene	0.051000 lb/d N/A	0.131000 lb/d N/A		1/quarter	Grab
TSS	152.800000 lb/d N/A	395.000000 lb/d N/A		1/day	24 hr fw composite
Vinyl chloride	0.222000 lb/d N/A	0.222000 lb/d N/A		1/quarter	Grab
Zn (T)	2.540000 lb/d N/A	6.313000 lb/d N/A		1/quarter	24 hr fw composite

Limitations/Monitoring Basis:
The limitations shown for outfall 001 in the abstract for outfall 001B apply from 10/1/94 until the permit expiration date. See the basis for outfall 001A.

Outfall: 002 | Receiving Water: Buffalo Creek | Treatment: None

Amount/Components:
Unspecified amount of cooling water.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	Report N/A	Units not specified	1/week	instantaneous
pH	N/A N/A	N/A Report	Between 6.0 SU and 9.0 SU	1/week	Grab
Temp.	N/A Report	N/A Report	See below	1/week	Grab
TRC	N/A N/A	N/A Report	Units not specified	1/week	Grab

Limitations/Monitoring Basis:
The basis for the limitations and monitoring conditions was not provided. The temperature of the effluent must not cause an increase of the receiving stream temp. of more than 2 degrees C, nor cause the ambient temp. to exceed 29 degrees C.

Special Conditions Basis:
The permittee was required to test for pollutants 1/year using EPA approved methods for the following analytical fractions: purgeables (volatile organics), acid extractables, base/neutral extractables, organochlorine pesticides and PBCs, herbicides, metals, and other inorganics. In addition, other significant levels of organic chemicals are to be quantified and reported in the annual pollutant analysis monitoring requirement reporting form. The permittee is required to obtain authorization for the use of any biocide in the cooling water no later than 90 days prior to use. The permit contains guidelines for sludge disposal.

Effective Date: 04/01/93 | Expiration Date: 12/31/97 | Abstract Date: 09/18/93

Facility Name: Crompton and Knowles Corp. | Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. | SIC Code: 2865

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	√

Abstract Information:
Complete; Outfalls 001 (A and B created for abstracting purposes) and 002.

Outfall: 001A | Receiving Water: S. Fork Catawba River | Treatment: AerL, Neut, Set, Fil

Amount/Components:
0.3 MGD of process wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
1,1,1-Trichloroethane	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
1,1,2-Trichloroethane	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
1,1,2-Trichloroethane	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethane	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethane	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethylene	0.063000 lb/d N/A	0.040000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethylene	0.063000 lb/d N/A	0.040000 lb/d N/A		1/quarter	Grab
1,2,4-Trichlorobenzene	0.350000 lb/d N/A	0.170000 lb/d N/A		1/quarter	Grab
1,2,4-Trichlorobenzene	0.350000 lb/d N/A	0.170000 lb/d N/A		1/quarter	Grab
1,2-Dichlorobenzene	0.408000 lb/d N/A	0.193000 lb/d N/A		1/quarter	Grab
1,2-Dichlorobenzene	0.408000 lb/d N/A	0.193000 lb/d N/A		1/quarter	Grab
1,2-Dichloroethane	0.528000 lb/d N/A	0.170000 lb/d N/A		1/quarter	Grab
1,2-Dichloroethane	0.528000 lb/d N/A	0.170000 lb/d N/A		1/quarter	Grab
1,2-Dichloropropane	0.575000 lb/d N/A	0.383000 lb/d N/A		1/quarter	Grab
1,2-Dichloropropane	0.575000 lb/d N/A	0.383000 lb/d N/A		1/quarter	Grab
1,2-Trans-Dichloroethylene	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
1,2-Trans-Dichloroethylene	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp.					Permit Number: NC0005274
Facility Description: Manufactures cyclic intermediates and dye stuffs.					SIC Code: 2865
1,3-Dichlorobenzene	0.110000 lb/d N/A	0.078000 lb/d N/A		1/quarter	Grab
1,3-Dichlorobenzene	0.110000 lb/d N/A	0.078000 lb/d N/A		1/quarter	Grab
1,3-Dichloropropene	0.110000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
1,3-Dichloropropene	0.110000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
1,4-Dichlorobenzene	0.070000 lb/d N/A	0.038000 lb/d N/A		1/quarter	Grab
1,4-Dichlorobenzene	0.070000 lb/d N/A	0.038000 lb/d N/A		1/quarter	Grab
2,4-Dichlorophenol	0.280000 lb/d N/A	0.098000 lb/d N/A		1/quarter	Grab
2,4-Dichlorophenol	0.280000 lb/d N/A	0.098000 lb/d N/A		1/quarter	Grab
2,4-Dimethylphenol	0.090000 lb/d N/A	0.045000 lb/d N/A		1/quarter	Grab
2,4-Dimethylphenol	0.090000 lb/d N/A	0.045000 lb/d N/A		1/quarter	Grab
2,4-Dinitrophenol	0.308000 lb/d N/A	0.178000 lb/d N/A		1/quarter	Grab
2,4-Dinitrophenol	0.308000 lb/d N/A	0.178000 lb/d N/A		1/quarter	Grab
2,4-Dinitrotoluene	0.713000 lb/d N/A	0.283000 lb/d N/A		1/quarter	Grab
2,4-Dinitrotoluene	0.713000 lb/d N/A	0.283000 lb/d N/A		1/quarter	Grab
2,6-Dinitrotoluene	1.604000 lb/d N/A	0.638000 lb/d N/A		1/quarter	Grab
2,6-Dinitrotoluene	1.604000 lb/d N/A	0.638000 lb/d N/A		1/quarter	Grab
2-Chlorophenol	0.245000 lb/d N/A	0.078000 lb/d N/A		1/quarter	Grab
2-Chlorophenol	0.245000 lb/d N/A	0.078000 lb/d N/A		1/quarter	Grab
2-Nitrophenol	0.173000 lb/d N/A	0.103000 lb/d N/A		1/quarter	Grab
2-Nitrophenol	0.173000 lb/d N/A	0.103000 lb/d N/A		1/quarter	Grab
4,6-Dinitro-o-cresol	0.693000 lb/d N/A	0.195000 lb/d N/A		1/quarter	Grab
4,6-Dinitro-o-cresol	0.693000 lb/d N/A	0.195000 lb/d N/A		1/quarter	Grab
4-Nitrophenol	0.310000 lb/d N/A	0.180000 lb/d N/A		1/quarter	Grab
4-Nitrophenol	0.310000 lb/d N/A	0.180000 lb/d N/A		1/quarter	Grab
Acenaphthene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp. Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. SIC Code: 2865

Acenaphthene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Acenaphthylene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Acenaphthylene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Acrylonitrile	0.605000 lb/d N/A	0.240000 lb/d N/A		1/quarter	Grab
Acrylonitrile	0.605000 lb/d N/A	0.240000 lb/d N/A		1/quarter	Grab
Anthracene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Anthracene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Benzene	0.340000 lb/d N/A	0.093000 lb/d N/A		1/quarter	Grab
Benzene	0.340000 lb/d N/A	0.093000 lb/d N/A		1/quarter	Grab
Bis (2-ethylhexyl) phthalate	0.698000 lb/d N/A	0.258000 lb/d N/A		1/quarter	Grab
Bis (2-ethylhexyl) phthalate	0.698000 lb/d N/A	0.258000 lb/d N/A		1/quarter	Grab
BOD5	112.000000 lb/d N/A	300.000000 lb/d N/A	See below	1/day	24hr fw composite
BOD5	112.000000 lb/d N/A	300.000000 lb/d N/A	See below	1/day	24hr fw composite
Carbon tetrachlor ide	0.095000 lb/d N/A	0.045000 lb/d N/A		1/quarter	Grab
Carbon tetrachlor ide	0.095000 lb/d N/A	0.045000 lb/d N/A		1/quarter	Grab
Chlorobenzene	0.070000 lb/d N/A	0.038000 lb/d N/A		1/quarter	Grab
Chlorobenzene	0.070000 lb/d N/A	0.038000 lb/d N/A		1/quarter	Grab
Chloroethane	0.671000 lb/d N/A	0.260000 lb/d N/A		1/quarter	Grab
Chloroethane	0.671000 lb/d N/A	0.260000 lb/d N/A		1/quarter	Grab
Chloroform	0.115000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
Chloroform	0.115000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	24hr fw composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	24hr fw composite
CN (T)	3.002000 lb/d N/A	1.051000 lb/d N/A		1/quarter	Grab
CN (T)	3.002000 lb/d N/A	1.051000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp. Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. SIC Code: 2865

Cr (T)	6.931000 lb/d N/A	2.777000 lb/d N/A		1/quarter	Grab
Cr (T)	6.931000 lb/d N/A	2.777000 lb/d N/A		1/quarter	Grab
Cu (T)	8.457000 lb/d N/A	3.628000 lb/d N/A		1/quarter	Grab
Cu (T)	8.457000 lb/d N/A	3.628000 lb/d N/A		1/quarter	Grab
Di-n-butyl phthalate	0.143000 lb/d N/A	0.068000 lb/d N/A		1/quarter	Grab
Di-n-butyl phthalate	0.143000 lb/d N/A	0.068000 lb/d N/A		1/quarter	Grab
Diethyl phthalate	0.508000 lb/d N/A	0.203000 lb/d N/A		1/quarter	Grab
Diethyl phthalate	0.508000 lb/d N/A	0.203000 lb/d N/A		1/quarter	Grab
Dimethyl phthalate	0.118000 lb/d N/A	0.048000 lb/d N/A		1/quarter	Grab
Dimethyl phthalate	0.118000 lb/d N/A	0.048000 lb/d N/A		1/quarter	Grab
DO	N/A N/A	N/A Report	Units not specified	1/day	Grab
DO	N/A N/A	N/A Report	Units not specified	1/day	Grab
Ethylbenzene	0.270000 lb/d N/A	0.080000 lb/d N/A		1/quarter	Grab
Ethylbenzene	0.270000 lb/d N/A	0.080000 lb/d N/A		1/quarter	Grab
Flow	N/A 0.300000 MGD	N/A N/A		Continuous	Record
Flow	N/A 0.300000 MGD	N/A N/A		Continuous	Record
Fluoranthene	0.170000 lb/d N/A	0.063000 lb/d N/A		1/quarter	Grab
Fluoranthene	0.170000 lb/d N/A	0.063000 lb/d N/A		1/quarter	Grab
Fluorene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Fluorene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Hexachlorobenzene	0.070000 lb/d N/A	0.038000 lb/d N/A		1/quarter	Grab
Hexachlorobenzene	0.070000 lb/d N/A	0.038000 lb/d N/A		1/quarter	Grab
Hexachlorobutadiene	0.123000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
Hexachlorobutadiene	0.123000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
Hexachloroethane	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp. Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. SIC Code: 2865

Hexachloroethane	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
Methyl chloride	0.475000 lb/d N/A	0.215000 lb/d N/A		1/quarter	Grab
Methyl chloride	0.475000 lb/d N/A	0.215000 lb/d N/A		1/quarter	Grab
Methylene chloride	0.223000 lb/d N/A	0.100000 lb/d N/A		1/quarter	Grab
Methylene chloride	0.223000 lb/d N/A	0.100000 lb/d N/A		1/quarter	Grab
Na	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
Na	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
Naphthalene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Naphthalene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Ni (T)	9.958000 lb/d N/A	4.228000 lb/d N/A		1/quarter	Grab
Ni (T)	9.958000 lb/d N/A	4.228000 lb/d N/A		1/quarter	Grab
Nitrobenzene	0.170000 lb/d N/A	0.068000 lb/d N/A		1/quarter	Grab
Nitrobenzene	0.170000 lb/d N/A	0.068000 lb/d N/A		1/quarter	Grab
Other	N/A N/A	N/A Report	Chlorine-units not given	1/quarter	24hr fw composite
Other	N/A N/A	N/A Report	Chlorine-units not given	1/quarter	24hr fw composite
P (T)	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
P (T)	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
PAHs	N/A N/A	0.019000 lb/d 4.800000 ug/l		1/month	Grab
PAHs	N/A N/A	0.019000 lb/d 4.800000 ug/l		1/month	Grab
Pb (T)	1.726000 lb/d N/A	0.801000 lb/d N/A		1/quarter	Grab
Pb (T)	1.726000 lb/d N/A	0.801000 lb/d N/A		1/quarter	Grab
Phenanthrene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Phenanthrene	0.148000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Phenol	0.065000 lb/d N/A	0.038000 lb/d N/A		1/quarter	Grab
Phenol	0.065000 lb/d N/A	0.038000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp. Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. SIC Code: 2865

Phenols	0.660000 lb/d N/A	1.320000 lb/d N/A		1/week	Grab
Phenols	0.660000 lb/d N/A	1.320000 lb/d N/A		1/week	Grab
Pyrene	0.168000 lb/d N/A	0.063000 lb/d N/A		1/quarter	Grab
Pyrene	0.168000 lb/d N/A	0.063000 lb/d N/A		1/quarter	Grab
Temp.	N/A N/A	N/A Report	See below	1/day	Grab
Temp.	N/A N/A	N/A Report	See below	1/day	Grab
Tetrachloroethylene	0.140000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Tetrachloroethylene	0.140000 lb/d N/A	0.055000 lb/d N/A		1/quarter	Grab
Toluene	0.200000 lb/d N/A	0.065000 lb/d N/A		1/quarter	Grab
Toluene	0.200000 lb/d N/A	0.065000 lb/d N/A		1/quarter	Grab
TOH	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
TOH	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
Trichloroethylene	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
Trichloroethylene	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
TSS	143.000000 lb/d N/A	458.000000 lb/d N/A		1/day	24hr fw composite
TSS	143.000000 lb/d N/A	458.000000 lb/d N/A		1/day	24hr fw composite
Vinyl chloride	0.671000 lb/d N/A	0.260000 lb/d N/A		1/quarter	Grab
Vinyl chloride	0.671000 lb/d N/A	0.260000 lb/d N/A		1/quarter	Grab
Zn (T)	6.530000 lb/d N/A	2.627000 lb/d N/A		1/quarter	Grab
Zn (T)	6.530000 lb/d N/A	2.627000 lb/d N/A		1/quarter	Grab

Limitations/Monitoring Basis:
The limitations for Outfall shown in the abstract for 001A apply beginning with the permit effective date until plant expansion above 0.300 MGD. Most of the limitations were based on ELGs in 40 CFR Part 414.8 Subpart H and 40 CFR 414.91 Subpart I. The phenols and PAHs limits were based on State WQSs. Previous permit limits and monitoring conditions were continued for flow, phenols, and pH. The basis for the remaining monitoring conditions was not provided. The BOD5 limit is to be measured by maintaining the temperature at 20 degrees Celcius. Chronic WET testing is to be conducted using Ceriodaphnia following State guidance. Compliance is defined as no observable inhibition of reproduction or significant mortality at 0.38% effluent concentration. If any test fails, the permittee is required to conduct monthly testing. Upon passing, quarterly testing resumes. The temperature of the effluent is prohibited from causing an increase of temperature in the receiving stream of more than 5 degrees Farenheit and from causing the ambient temperature to exceed 90 degrees Farenheit. The chemicals defined as PAHs for this permit are listed.

Facility Name: Crompton and Knowles Corp. | Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. | SIC Code: 2865

Outfall: 001B | Receiving Water: S. Fork Catawba River | Treatment: AerL, Neut, Set, Fil

Amount/Components:
0.3 MGD of process wastewater.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	0.180000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
1,1,1-Trichloroethane	0.180000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
1,1,2-Trichloroethane	0.180000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
1,1,2-Trichloroethane	0.180000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethane	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethane	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethylene	0.083000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
1,1-Dichloroethylene	0.083000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
1,2,4-Trichlorobenzene	0.467000 lb/d N/A	0.227000 lb/d N/A		1/quarter	Grab
1,2,4-Trichlorobenzene	0.467000 lb/d N/A	0.227000 lb/d N/A		1/quarter	Grab
1,2-Dichlorobenzene	0.544000 lb/d N/A	0.257000 lb/d N/A		1/quarter	Grab
1,2-Dichlorobenzene	0.544000 lb/d N/A	0.257000 lb/d N/A		1/quarter	Grab
1,2-Dichloroethane	0.704000 lb/d N/A	0.227000 lb/d N/A		1/quarter	Grab
1,2-Dichloroethane	0.704000 lb/d N/A	0.227000 lb/d N/A		1/quarter	Grab
1,2-Dichloropropane	0.767000 lb/d N/A	0.510000 lb/d N/A		1/quarter	Grab
1,2-Dichloropropane	0.767000 lb/d N/A	0.510000 lb/d N/A		1/quarter	Grab
1,2-Trans-Dichloroethylene	0.180000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
1,2-Trans-Dichloroethylene	0.180000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
1,3-Dichlorobenzene	0.147000 lb/d N/A	0.103000 lb/d N/A		1/quarter	Grab
1,3-Dichlorobenzene	0.147000 lb/d N/A	0.103000 lb/d N/A		1/quarter	Grab
1,3-Dichloropropene	0.147000 lb/d N/A	0.097000 lb/d N/A		1/quarter	Grab
1,3-Dichloropropene	0.147000 lb/d N/A	0.097000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp. Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. SIC Code: 2865

1,4-Dichlorobenzene	0.093000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
1,4-Dichlorobenzene	0.093000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
2,4-Dichlorophenol	0.374000 lb/d N/A	0.130000 lb/d N/A		1/quarter	Grab
2,4-Dichlorophenol	0.374000 lb/d N/A	0.130000 lb/d N/A		1/quarter	Grab
2,4-Dimethylphenol	0.120000 lb/d N/A	0.060000 lb/d N/A		1/quarter	Grab
2,4-Dimethylphenol	0.120000 lb/d N/A	0.060000 lb/d N/A		1/quarter	Grab
2,4-Dinitrophenol	0.410000 lb/d N/A	0.237000 lb/d N/A		1/quarter	Grab
2,4-Dinitrophenol	0.410000 lb/d N/A	0.237000 lb/d N/A		1/quarter	Grab
2,4-Dinitrotoluene	0.951000 lb/d N/A	0.377000 lb/d N/A		1/quarter	Grab
2,4-Dinitrotoluene	0.951000 lb/d N/A	0.377000 lb/d N/A		1/quarter	Grab
2,6-Dinitrotoluene	2.138000 lb/d N/A	0.851000 lb/d N/A		1/quarter	Grab
2,6-Dinitrotoluene	2.138000 lb/d N/A	0.851000 lb/d N/A		1/quarter	Grab
2-Chlorophenol	0.327000 lb/d N/A	0.103000 lb/d N/A		1/quarter	Grab
2-Chlorophenol	0.327000 lb/d N/A	0.103000 lb/d N/A		1/quarter	Grab
2-Nitrophenol	0.230000 lb/d N/A	0.137000 lb/d N/A		1/quarter	Grab
2-Nitrophenol	0.230000 lb/d N/A	0.137000 lb/d N/A		1/quarter	Grab
3,4-Benzofluoranthene	0.203000 lb/d N/A	0.077000 lb/d N/A		1/quarter	Grab
3,4-Benzofluoranthene	0.203000 lb/d N/A	0.077000 lb/d N/A		1/quarter	Grab
4,6-Dinitro-o-cresol	0.924000 lb/d N/A	0.260000 lb/d N/A		1/quarter	Grab
4,6-Dinitro-o-cresol	0.924000 lb/d N/A	0.260000 lb/d N/A		1/quarter	Grab
4-Nitrophenol	0.414000 lb/d N/A	0.240000 lb/d N/A		1/quarter	Grab
4-Nitrophenol	0.414000 lb/d N/A	0.240000 lb/d N/A		1/quarter	Grab
Acenaphthene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Acenaphthene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Acenaphthylene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp.					Permit Number: NC0005274
Facility Description: Manufactures cyclic intermediates and dye stuffs.					SIC Code: 2865
Acenaphthylene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Acrylonitrile	0.807000 lb/d N/A	0.320000 lb/d N/A		1/quarter	Grab
Acrylonitrile	0.807000 lb/d N/A	0.320000 lb/d N/A		1/quarter	Grab
Anthracene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Anthracene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Benzene	0.454000 lb/d N/A	0.123000 lb/d N/A		1/quarter	Grab
Benzene	0.454000 lb/d N/A	0.123000 lb/d N/A		1/quarter	Grab
Benzo (a) anthrac ene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Benzo (a) anthrac ene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Benzo (a) pyrene	0.203000 lb/d N/A	0.077000 lb/d N/A		1/quarter	Grab
Benzo (a) pyrene	0.203000 lb/d N/A	0.077000 lb/d N/A		1/quarter	Grab
Benzo (k) fluoran thane	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Benzo (k) fluoran thane	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Bis (2-ethylhexyl) phthalate	0.931000 lb/d N/A	0.344000 lb/d N/A		1/quarter	Grab
Bis (2-ethylhexyl) phthalate	0.931000 lb/d N/A	0.344000 lb/d N/A		1/quarter	Grab
BOD5	150.000000 lb/d N/A	437.000000 lb/d N/A	See below	1/day	24hr fw composite
BOD5	150.000000 lb/d N/A	437.000000 lb/d N/A	See below	1/day	24hr fw composite
Carbon tetrachlor ide	0.127000 lb/d N/A	0.060000 lb/d N/A		1/quarter	Grab
Carbon tetrachlor ide	0.127000 lb/d N/A	0.060000 lb/d N/A		1/quarter	Grab
Chlorobenzene	0.093000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
Chlorobenzene	0.093000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
Chloroethane	0.894000 lb/d N/A	0.347000 lb/d N/A		1/quarter	Grab
Chloroethane	0.894000 lb/d N/A	0.347000 lb/d N/A		1/quarter	Grab
Chloroform	0.153000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
Chloroform	0.153000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp. Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. SIC Code: 2865

Chronic WET	N/A N/A	N/A Report	See below	1/quarter	24hr fw composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	24hr fw composite
Chrysene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Chrysene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
CN (T)	4.003000 lb/d N/A	1.401000 lb/d N/A		1/quarter	Grab
CN (T)	4.003000 lb/d N/A	1.401000 lb/d N/A		1/quarter	Grab
Cr (T)	9.241000 lb/d N/A	3.703000 lb/d N/A		1/quarter	Grab
Cr (T)	9.241000 lb/d N/A	3.703000 lb/d N/A		1/quarter	Grab
Cu (T)	11.276000 lb/d N/A	4.837000 lb/d N/A		1/quarter	Grab
Cu (T)	11.276000 lb/d N/A	4.837000 lb/d N/A		1/quarter	Grab
Di-n-butyl phthalate	0.190000 lb/d N/A	0.090000 lb/d N/A		1/quarter	Grab
Di-n-butyl phthalate	0.190000 lb/d N/A	0.090000 lb/d N/A		1/quarter	Grab
Diethyl phthalate	0.677000 lb/d N/A	0.270000 lb/d N/A		1/quarter	Grab
Diethyl phthalate	0.677000 lb/d N/A	0.270000 lb/d N/A		1/quarter	Grab
Dimethyl phthalate	0.157000 lb/d N/A	0.063000 lb/d N/A		1/quarter	Grab
Dimethyl phthalate	0.157000 lb/d N/A	0.063000 lb/d N/A		1/quarter	Grab
DO	N/A N/A	N/A Report	Units not specified	1/day	Grab
DO	N/A N/A	N/A Report	Units not specified	1/day	Grab
Ethylbenzene	0.360000 lb/d N/A	0.107000 lb/d N/A		1/quarter	Grab
Ethylbenzene	0.360000 lb/d N/A	0.107000 lb/d N/A		1/quarter	Grab
Flow	N/A 0.400000 MGD	N/A N/A		Continuous	Record
Flow	N/A 0.400000 MGD	N/A N/A		Continuous	Record
Fluoranthene	0.227000 lb/d N/A	0.083000 lb/d N/A		1/quarter	Grab
Fluoranthene	0.227000 lb/d N/A	0.083000 lb/d N/A		1/quarter	Grab
Fluorene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp. Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. SIC Code: 2865

Fluorene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Hexachlorobenzene	0.093000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
Hexachlorobenzene	0.093000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
Hexachlorobutadiene	0.163000 lb/d N/A	0.067000 lb/d N/A		1/quarter	Grab
Hexachlorobutadiene	0.163000 lb/d N/A	0.067000 lb/d N/A		1/quarter	Grab
Hexachloroethane	0.180000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
Hexachloroethane	0.180000 lb/d N/A	0.070000 lb/d N/A		1/quarter	Grab
Methyl chloride	0.634000 lb/d N/A	0.287000 lb/d N/A		1/quarter	Grab
Methyl chloride	0.634000 lb/d N/A	0.287000 lb/d N/A		1/quarter	Grab
Methylene chloride	0.297000 lb/d N/A	0.133000 lb/d N/A		1/quarter	Grab
Methylene chloride	0.297000 lb/d N/A	0.133000 lb/d N/A		1/quarter	Grab
Na	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
Na	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
Naphthalene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Naphthalene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Ni (T)	13.277000 lb/d N/A	5.638000 lb/d N/A		1/quarter	Grab
Ni (T)	13.277000 lb/d N/A	5.638000 lb/d N/A		1/quarter	Grab
Nitrobenzene	0.227000 lb/d N/A	0.090000 lb/d N/A		1/quarter	Grab
Nitrobenzene	0.227000 lb/d N/A	0.090000 lb/d N/A		1/quarter	Grab
Other	N/A N/A	N/A Report	Chlorine-units not given	1/quarter	24hr fw composite
Other	N/A N/A	N/A Report	Chlorine-units not given	1/quarter	24hr fw composite
P (T)	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
P (T)	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
PAHs	N/A N/A	0.012000 lb/d 3.600000 ug/l		1/month	Grab
PAHs	N/A N/A	0.012000 lb/d 3.600000 ug/l		1/month	Grab

Facility Name: Crompton and Knowles Corp.					Permit Number: NC0005274
Facility Description: Manufactures cyclic intermediates and dye stuffs.					SIC Code: 2865
Pb (T)	2.302000 lb/d N/A	1.068000 lb/d N/A		1/quarter	Grab
Pb (T)	2.302000 lb/d N/A	1.068000 lb/d N/A		1/quarter	Grab
Phenanthrene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Phenanthrene	0.197000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Phenol	0.087000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
Phenol	0.087000 lb/d N/A	0.050000 lb/d N/A		1/quarter	Grab
Phenols	0.660000 lb/d N/A	1.320000 lb/d N/A		1/week	Grab
Phenols	0.660000 lb/d N/A	1.320000 lb/d N/A		1/week	Grab
Pyrene	0.224000 lb/d N/A	0.083000 lb/d N/A		1/quarter	Grab
Pyrene	0.224000 lb/d N/A	0.083000 lb/d N/A		1/quarter	Grab
Temp.	N/A N/A	N/A Report	See below	1/day	Grab
Temp.	N/A N/A	N/A Report	See below	1/day	Grab
Tetrachloroethylene	0.187000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Tetrachloroethylene	0.187000 lb/d N/A	0.073000 lb/d N/A		1/quarter	Grab
Toluene	0.267000 lb/d N/A	0.087000 lb/d N/A		1/quarter	Grab
Toluene	0.267000 lb/d N/A	0.087000 lb/d N/A		1/quarter	Grab
TON	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
TON	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
Trichloroethylene	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
Trichloroethylene	0.135000 lb/d N/A	0.053000 lb/d N/A		1/quarter	Grab
TSS	192.000000 lb/d N/A	615.000000 lb/d N/A	total suspended residue	1/day	24hr fw composite
TSS	192.000000 lb/d N/A	615.000000 lb/d N/A	total suspended residue	1/day	24hr fw composite
Vinyl chloride	0.894000 lb/d N/A	0.347000 lb/d N/A		1/quarter	Grab
Vinyl chloride	0.894000 lb/d N/A	0.347000 lb/d N/A		1/quarter	Grab
Zn (T)	8.707000 lb/d N/A	3.503000 lb/d N/A		1/quarter	Grab

Facility Name: Crompton and Knowles Corp. | Permit Number: NC0005274

Facility Description: Manufactures cyclic intermediates and dye stuffs. | SIC Code: 2865

Zn (T)	8.707000 lb/d N/A	3.503000 lb/d N/A		1/quarter	Grab

Limitations/Monitoring Basis:
The limitations for Outfall 001 shown in the abstract for 001B apply beginning with the permit effective date until plant expansion above 0.300 MGD. See the basis discussion for Outfall 001A. Compliance with the chronic WET requirement is defined as no observable inhibition of reproduction or significant mortality at 0.5 % effluent concentration.

Outfall: 002 | Receiving Water: S. Fork Catawba River | Treatment: None

Amount/Components:
Unspecified amount of cooling water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/week	Instantaneous
Flow	N/A N/A	N/A Report MGD		1/week	Instantaneous
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/week	Grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/week	Grab
Temp.	N/A Report	N/A Report	See below	1/week	Grab
Temp.	N/A Report	N/A Report	See below	1/week	Grab
TRC	N/A N/A	N/A Report	Units not specified	1/week	Grab
TRC	N/A N/A	N/A Report	Units not specified	1/week	Grab

Limitations/Monitoring Basis:
The temperature of the effluent must not cause an increase in the temperature of the receiving stream of more than 2.8 degrees Celcius and must not cause the ambient temperature to exceed 32 degrees Celcius. The discharge of floating solids or visible foam in other than trace amounts is prohibited.

Special Conditions Basis:
The permittee is required to test for pollutants 1/year using EPA approved methods for the following analytic fractions: purgeables (volatile organics), acid extractables, base/neutral extractables, organochlorine pesticides and PCBs, herbicides, metals, and other inorganics. In addition, other significant levels of organic chemicals are to be quantified and reported in the annual pollutant analysis monitoring requirement reporting form. The permittee is required to obtain authorization for use of any biocide in the cooling water no later than 90 days prior to use. Guidelines for sludge disposal are provided.

Effective Date: 03/01/93 | Expiration Date: 05/01/96 | Abstract Date: 09/18/93

Facility Name: Fieldcrest Cannon, Inc. | **Permit Number:** NC0005479

Facility Description: Carpet manufacturer | **SIC Code:** 2271

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	✓	✓	-	✓	-	✓	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	✓	-

Abstract Information:
Complete; Outfall 001

Outfall: 001 | **Receiving Water:** Gum Swamp Creek | **Treatment:** AerL+Clar+Neut+Dis

Amount/Components:
0.3 MGD of industrial and domestic wastewater.

Parameter	Limitations: Average	Limitations: Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Bis (2-ethylhexyl) phthalate	N/A N/A	N/A 735.000000 ug/l		1/quarter	Grab
BOD5	54.200000 lb/d N/A	106.400000 lb/d N/A		1/week	Composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	Composite
COD	100.800000 lb/d N/A	201.600000 lb/d N/A		1/week	Composite
DO	N/A N/A	N/A Report	Units not specified	1/week	Grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	1/week	Grab
Flow	N/A 0.300000 mgd	N/A N/A		Continuous	Recorder
NH3-N	N/A N/A	N/A Report	Units not specified	1/month	Composite
Other	N/A N/A	N/A Report	MBAS: units not spec ified	1/month	Composite
P (T)	N/A N/A	N/A Report	Units not specified	1/quarter	Composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	1/day	Grab
Temp.	N/A N/A	N/A Report	Units not specified	1/week	Grab
TKN	N/A N/A	N/A Report	Units not specified	1/month	Composite
TRC	N/A N/A	N/A Report	units not specified	1/day	Grab
TSS	54.200000 lb/d N/A	106.400000 lb/d N/A		1/week	Composite

Limitations/Monitoring Basis:
Upstream and downstream samples are to be analyzed for FC and temperature. The influent flow is to be monitored as well as the effluent flow. Chronic WET testing is to be conducted following state guidance using ceriodaphnia. The effluent concentration at which there may be no observable inhibition of reproduction or significant mortality is 1.5%. The permit contains a prohibition of discharge of floating solids or visible foam in other than trace amounts. Upstream and downstream grab samples are to be tested for conductivity 1/week. The limits for BOD5, COD, TSS, and pH were calculated using 40 CFR guidelines 410 Subpart C (low water use processing),410.32 (general processing - BPT). Limits for bis (2-ethylhexyl) phthalate and fecal coliform are based on water quality standards contained in 15 NCAC 2B.0211. The toxicity test is based on the instream waste concentration.

Facility Name: Fieldcrest Cannon, Inc.	Permit Number: NC0005479
Facility Description: Carpet manufacturer	SIC Code: 2271

Special Conditions Basis:

The permit contains a reopener based on the results of the WET testing or any other test results that indicate potential impacts to the receiving stream. The permittee is required to conduct annual tests for specified pollutants using EPA approved methods. As part of this annual pollutant analysis monitoring, the permittee is required to identify the largest 10 GC/MS peaks in the purgeable, base/neutral extractable, and acid extractable fractions (or fewer, as applicable) for chemicals other than those specified, and approximately quantify them.

Effective Date: 08/01/91	Expiration Date: 12/31/94	Abstract Date: 09/10/93

Facility Name: Gutzmer Construction - Lisbon | **Permit Number:** ND0023809

Facility Description: Sand and gravel washing operation | **SIC Code:** 1442

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	✓	✓	✓	-	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	-

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | **Receiving Water:** Sheyenne River | **Treatment:** Fil

Amount/Components:
Unspecified amounts of wash water and/or pit dewatering stormwater discharges.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report mgd	N/A N/A		1/day	instantaneou
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/day	visual
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 45.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
Effluent limitations are based on 40 CFR Part 436. subpart C, North Dakota Water Quality Standards, and BPJ. The limitations are continued from the previous permit. If a visible sheen or floating oil is seen in the effluent, a grab sample must be taken and analyzed to ensure compliance with the O&G limitation. The bases of the monitoring were not described.

Special Conditions Basis:
N/A

Effective Date: 07/01/92 | **Expiration Date:** 06/30/97 | **Abstract Date:** 04/13/93

Facility Name: Minn-Dak Farmers Cooperative | Permit Number: ND0024368

Facility Description: Sugar beet and beet fiber processing | SIC Code: 2063

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	√	√

Abstract Information:
Complete for outfalls 001 and 002.

Outfall: 001 | Receiving Water: Red River | Treatment: AnD, AerD, CAC

Amount/Components:
Unspecified amount of treated wastewaters from storage pond with capacity of approximately 200 million gallons.

	Limitations			Monitoring Requirements	
Parameter	Average	daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	99999.000000 N/A	See below	1/quarter	grab
BOD5	N/A 25.000000 mg/l	N/A N/A	See below	1/day	grab
COD	N/A Report mg/l	N/A Report mg/l		1/day	grab
DO	N/A Report mg/l	N/A Report mg/l		1/day	grab
FC	N/A N/A	N/A 400.000000	Units: #/100 ml	1/day	grab
Flow	N/A Report mgd	N/A Report mgd	See below	continuous	recorder
NH3-N	N/A Report mg/l	N/A Report mg/l		2/week	grab
pH	N/A N/A	Report N/A	Between 6.0 su and 9 .0 su	1/day	grab
Temp.	N/A N/A	32.000000 N/A	Units: degrees celci us	1/day	grab
TSS	N/A 30.000000 mg/l	N/A N/A	See below	1/day	grab

Limitations/Monitoring Basis:
Limitations are based on the Sugar Processing Point Source Category, Subpart A - Beet Sugar Processing Subcategory (40 CFR Part 409.10-17), North Dakota Water Quality Standards, and BPJ. BOD5 is based on WQS and is retained from the previous permit. The maximum allowable lb/d BOD5 and TSS are WQ-based on the flow of the receiving stream and the lbs of sugar produced (per ELGs), using the more stringent. When flow in the Red River is less than 100 cfs, no discharge is allowed unless extenuating circumstances exist and specific authorization has been granted. When flow in the Red River is from 100 to 600 cfs, the maximum allowable discharge of BOD5 and TSS is to be determined on a case by case basis using equations provided. Acute static replacement toxicity tests must be performed once per quarter. (Discharge authorization must be granted by the State.)

Outfall: 002 | Receiving Water: Red River | Treatment: Not specified.

Amount/Components:
Unspecified amount of discharge from groundwater wells on intermittent basis.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/day	instant.

Facility Name: Minn-Dak Farmers Cooperative					Permit Number: ND0024368
Facility Description: Sugar beet and beet fiber processing					SIC Code: 2063
Other	Report N/A	N/A N/A	See below - gen. ana lysis	1/quarter	grab

Limitations/Monitoring Basis:

Ground water from two wells is pumped and used for plant process water. No discharge has occurred since 1989. No limitations are set for Outfall 002 per the previous permit. The permit provides that no discharge of process water or contaminated area runoff shall be allowed. During periods of discharge, the permittee must monitor for a general chemical analysis including the following pollutants: Ca, Mg, Na, K, Fe, Mn, conductivity, pH,total hardness (as CaCO3), TDS, NO4, turbidity, SO4, and flow.

Special Conditions Basis:

The permittee is required to monitor Red River for DO 1/day in three places, and monitor Red River flow 1/day during discharge periods. No discharge is allowed during periods of ice cover. Predischarge samples must be taken and analyzed for NH3, BOD5, COD, fecal coliforms, pH, and TSS. Once per quarter the permittee is required to monitor for SO3, Ar, Cu, hardness, Hg, Se, SO4, and total Zn. No discharge is allowed when the Red River flow is less than 100 cfs unless extenuating circumstances exist and specific authorization has been made by permitting authority. Pounds of sugar must be reported each month. Once per quarter, acute static replacement toxicity tests must be conducted on seperate grab samples. Using acute 48-hour tests for ceriodaphnia sp. and acute 96-hour tests for fathead minnows. If acute toxicity occurs, additional tests shall be conducted. If acutetoxicity occurs in the second test, testing shall be conducted on each subsequent discharge but no more than one per month. If 4 consecutive acute toxicity tests over a 12-month period shows no acute toxicity, permittee may request a reduction to quarterly testing of one species.

Effective Date: 04/01/92 Expiration Date: 03/31/97 Abstract Date: 04/13/93

Facility Name: Coteau Properties Co - Beulah | Permit Number: ND0025038

Facility Description: Surface coal mining and reclamation activities | SIC Code: 1221

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	✓	-	-	-	-	-	-	✓

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	✓	-	-	-	-	-	-	-	-

Abstract Information:
Partial; One outfall representative of 37. Outfalls 002A, 002B, 002C, 002D, 002E, and 002F were created for abstract purposes.

Outfall: 002A | Receiving Water: Beulah Trench Creek | Treatment: Sed

Amount/Components:
Unspecified amount from sedimentation ponds to treat drainage from active surface mining areas.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Fe (T)	N/A 3.500000 mg/l	N/A 7.000000 mg/l	See below	1/month	grab
Flow	N/A Report mgd	N/A N/A		1/day	instant.
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/day	visual
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/month	instant.
TSS	N/A 35.000000 mg/l	N/A 70.000000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:
Limits and monitoring conditions for Fe (T) and TSS shown for Outfall 002D apply at Outfall 002A during precipitation or snow melt events. North Dakota State Department of Health and Consolidated Laboratories standards apply for five phases of mining activities: 1) active mining areas, 2) reclamation areas, seeding complete, 3) reclamation areas, vegetation established, 4) discharges attributable to precipitation or snow melt events, and5) discharges from sewage lagoons. Limits are continued from the previous permit. For sedimentation pond removal sites, BMPs replace effluent limitations and monitoring requirements. The Public Service Comission's Policy Memorandum No. 19 is used for water quality and vegetative standards which must be met before a structure is removed. If a visible sheen or floating oil is found in the effluent, a grab sample is to be analyzed to ensure compliance with the limits.

Outfall: 002B | Receiving Water: Beulah Trench Creek | Treatment: Sed

Amount/Components:
Unspecified amount from sedimentation ponds to treat drainage from reclamation areas, seeding complete.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report mgd	N/A N/A		1/day	instant.
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/month	instant.
TSS	N/A N/A	N/A 70.000000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:
See Limitations/Monitoring Basis for Outfall 002A.

Facility Name: Coteau Properties Co - Beulah | Permit Number: ND0025038

Facility Description: Surface coal mining and reclamation activities | SIC Code: 1221

Outfall: 002C | Receiving Water: Beulah Trench Creek | Treatment: Sed

Amount/Components:
Unspecified amount from sedimentation ponds to treat drainage from reclamation areas, vegetation established.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/day	instant.
pH	N/A Report	N/A N/A	Between 6.0 su and 9.0 su	1/quarter	instant.
TSS	N/A N/A	N/A 70.000000 mg/l	See below	1/quarter	grab

Limitations/Monitoring Basis:
See Limitations/Monitoring Basis for Outfall 002A.

Outfall: 002D | Receiving Water: Beulah Trench Creek | Treatment: Sed

Amount/Components:
Unspecified amount from sedimentation ponds designed to contain 10-yr 24-hr storm; active mining and reclamation, seeding complete.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Fe (T)	N/A Report mg/l	N/A N/A	See below	1/month	grab
Flow	N/A Report mgd	N/A N/A		1/day	instant.
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/day	visual
pH	N/A Report	N/A N/A	Between 6.0 su and 9.0 su	1/month	instant.
SS	N/A N/A	N/A 0.500000 ml/l	See below	1/week	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/week	grab

Limitations/Monitoring Basis:
See Limitations/Monitoring Basis for Outfall 002A. Fe (T) and O&G limits are applicable to active mining areas only. Daily maximum limitation for SS is waived if there is a precipitation event and/or snow melt greater than 3.1 inches in 24 hours.

Outfall: 002E | Receiving Water: Beulah Trench Creek | Treatment: Sed

Amount/Components:
Unspecified amount from sedimentation ponds designed to contain 10-yr, 24-hr storm; reclamation area, vegetation established.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A N/A		1/day	instant.
pH	N/A Report	N/A N/A	Between 6.0 su and 9.0 su	1/quarter	instant.

Facility Name: Coteau Properties Co - Beulah | Permit Number: ND0025038

Facility Description: Surface coal mining and reclamation activities | SIC Code: 1221

SS	N/A N/A	N/A 0.500000 ml/l	See below	1/quarter	grab
TSS	N/A N/A	N/A Report mg/l		1/quarter	grab

Limitations/Monitoring Basis:
See Limitations/Monitoring Basis for Outfall 002A. Daily maximum limitation for SS is waived if there is a precipitation event and/or snow melt greater than 3.1 inches in 24 hours.

Outfall: 002F | Receiving Water: Beulah Trench Creek | Treatment: Sed

Amount/Components:
Unspecified amount from sewage lagoons.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 25.000000 mg/l	N/A 45.000000 mg/l		1/week	grab
Flow	N/A Report mgd	N/A N/A		1/day	instant.
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/day	visual
pH	N/A Report	N/A N/A	Between 6.0 su and 9 .0 su	1/month	instant.
TSS	N/A 30.000000 mg/l	N/A 45.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
See Limitations/Monitoring Basis for Outfall 002A.

Special Conditions Basis:
BMPs and all procedures identified in the approved reclamation plan are required to be followed throughout the course of the pond removal. Pond removal activities are required to be summarized on the DMR.

Effective Date: 01/01/92 | Expiration Date: 12/31/96 | Abstract Date: 04/13/93

Facility Name: Basin Electric Power Coop-Bism | **Permit Number:** ND0025232

Facility Description: Lignite coal-fired steam electric generating plant | **SIC Code:** 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	√	-	√	-

Abstract Information:
Partial for outfalls 001, 003, 004, 007, 008, 009, and 010; 3 other outfalls are either similar to the selected outfalls or have no regulated discharge point.

Outfall: 001 | **Receiving Water:** Missouri | **Treatment:** Not specified.

Amount/Components:
Average of 71.36 once through cooling water discharge, daily screen washings, and ash pond overflow.

	Limitations			Monitoring Requirements	
Parameter	Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	grab
Flow	N/A Report mgd	N/A Report mgd		1/week	instant.
Metals (T)	N/A Report mg/l	N/A Report mg/l		2/year	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A 37.200000	Units: degrees celci us	continuous	recorder
TRC	N/A N/A	9.900000 lb/d 0.200000 mg/l	Applies when chlorin ating	1/week	grab

Limitations/Monitoring Basis:
Limitations are based on ELG - 40 CFR Part 423. The limitations are for the once-through cooling water because the other waste streams are regulated at internal points. The pH limit is continued from the existing permit.The limit for temp. is WQ-based. The TRC mass limit was calculated using 1/12 the average discharge rate. Monitoring for TRC is unnecessary when there is no chlorination. Acute toxicity testing must be performed on Outfall 001 effluent 1/quarter beginning July 1, 1992. Static replacement toxicity tests are to be conducted 1/quarter using a 48-hour test with Ceriodaphnia sp. and a 98-hour test with fathead minnows. Acute toxicity is 50% or more mortality at any concentration. The tests are to be conducted following EPA and Regional guidance documents. If toxicity occurs, a second test is to be conducted within 4 weeks. If toxicity continues, testing is required 1/month, and a TRE may be required. Maximum limitation for TSS is 100 mg/l for discharge overflow caused by a rainfall in excess of 3.2 inches in a 24hr period. Cu (T) and Fe (T) are to be monitored 14 and 21 days after metal cleaning activities sampled at Discharge 008. If ash pond effluent is present in outfall 003 discharge, sampling must be performed for total recoverable As, Ba, B, Cd, Cr, Cu, Pb, Hg, Se, and Zn.

Outfall: 003 | **Receiving Water:** Internal to Outfall 001. | **Treatment:** Not specified.

Amount/Components:
Average flow of 8.78 mgd of low volume wastes, fly ash and bottom ash transport water, and coal pile and plant/site runoff.

	Limitations			Monitoring Requirements	
Parameter	Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	2/year	grab
Cu (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l		variable	grab
Fe (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l		variable	grab

Facility Name: Basin Electric Power Coop-Bism | Permit Number: ND0025232

Facility Description: Lignite coal-fired steam electric generating plant | SIC Code: 4931

Flow	N/A Report mgd	N/A Report mgd		1/week	instantaneous
Metals (T)	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l		1/month	grab
pH	N/A Report	N/A Report		1/week	grab
TSS	N/A 30.000000 mg/l	N/A 50.000000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:
Limits and monitoring requirements are based on ELG - 40 CFR Part 423 with the most stringent limits taken from the applicable subcategories. If ash pond effluent is present in Outfall 003 discharge, sampling must be performed for total recoverable As, Ba, B, Cd, Cu, Pb, Hg, Se, and Zn. If the facility is designed to treat the runoff from a 10-hr, 24-hr precipitation event, the daily maximum limitation for TSS is 100 mg/l for discharge ovrflow caused by a rainfall in excess of 3.2 inches in a 24-hr period. Cu (T) and Fe (T) are to be monitored 14 and 21 days after metal cleaning activities sampled at Outfall 008. Toxicity testing must be performed following the same protocol discussed for Outfall 001.

Outfall: 004 | Receiving Water: Missouri | Treatment: AerD

Amount/Components:
Average 3246 gal/day of domestic wastewater from extended aeration wastewater treatment plant.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 25.000000 mg/l	N/A 45.000000 mg/l		1/month	grab
Coliform (T)	N/A 200.000000	N/A 400.000000	units: no./100 ml	1/month	grab
Flow	N/A Report mgd	N/A Report mgd		1/month	instant.
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	grab
TRC	N/A N/A	N/A 4.000000 mg/l		1/month	grab
TSS	N/A 30.000000 mg/l	N/A 45.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:
Limits and monitoring requirements are based on state policy for domestic wastewater, and WQS. The limitation for TRC is WQS-based.

Outfall: 007 | Receiving Water: Internal to Outfall 003 | Treatment: Not specified.

Amount/Components:
Average flow of 6000 gal/day when discharge occurs from flash evaporated boiler steam and plant site runoff.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/week	instant.
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l		1/month	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	1/week	grab

Facility Name: Basin Electric Power Coop-Bism | Permit Number: ND0025232

Facility Description: Lignite coal-fired steam electric generating plant | SIC Code: 4931

TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
Monitoring requirements are based on BPJ. Limitations for O&G and TSS, based on BPJ, are taken from low volume waste in ELGs 40 CFR Part 423. A temperature limit was not considered necessary. Discharge of PCBs is prohibited.

Outfall: 009 | Receiving Water: Internal to Outfall 001 | Treatment: Not specified.

Amount/Components:
Unspecified amount of sump discharge from the pump intake.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A Report mgd		1/day	instant.
O&G	N/A N/A	N/A 10.000000 mg/l		1/day	visual
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	1/week	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/week	grab

Limitations/Monitoring Basis:
The basis for the monitoring requirements was not discussed.

Outfall: 010 | Receiving Water: Internal to Outfall 003 | Treatment: Not specified.

Amount/Components:
Unspecified amount of runoff water from the plant site.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A Report mg/l	N/A Report mg/l		2/year	grab
COD	N/A Report mg/l	N/A Report mg/l		2/year	grab
O&G	N/A Report mg/l	N/A Report mg/l		2/year	grab
P (T)	N/A Report mg/l	N/A Report mg/l		2/year	grab
TDS	N/A Report mg/l	N/A Report mg/l		2/year	grab
TKN	N/A Report mg/l	N/A Report mg/l		2/year	grab
TON	N/A Report mg/l	N/A Report mg/l		2/year	grab
TSS	N/A Report mg/l	N/A Report mg/l		2/year	grab

Limitations/Monitoring Basis:
Monitoring was established based on the expectation that this outfall will soon be covered by a storm water general permit.

Facility Name: Basin Electric Power Coop-Bism | Permit Number: ND0025232

Facility Description: Lignite coal-fired steam electric generating plant | SIC Code: 4931

Outfall: 008 | Receiving Water: Internal to Outfall 003 | Treatment: Not specified.

Amount/Components:
Unspecified amount from boiler bottom for metal cleaning wastes.

Parameter	Limitations			Monitoring Requirements	
	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Cu (T)	N/A Report mg/l	N/A Report mg/l		variable	grab
Fe (T)	N/A Report mg/l	N/A Report mg/l		variable	grab

Limitations/Monitoring Basis:
The basis for the monitoring requirement was not discussed. Permittee must monitor 1/metal cleaning event until 2 samples/month have been obtained.

Special Conditions Basis:
Acute toxicity testing must be performed on effluent from Outfall 003 once per quarter. If toxicity is detected, a TRE may need to be performed. TRC may not be discharged from any single generating unit for more than 2 hours per day unless the discharge is required for macroinvertebrate control. Monitoring for TRC is not necessary if chlorination is not occurring.For 003, in addition to quarterly monitoring for metals, a general chemical analysis and monitoring for metals, CN, and total phenols must be performed once over the life of the permit.For 004, samples must be taken at the north end of the septic tank addition to the sewage treatment plant. For 007, no increase in temp. of the Missouri River greater than 5 degrees above background is allowed.For 010, only 1 sample/year may be collected from snowmelt runoff. The other must be from a rain event.

Effective Date: 01/01/92 | Expiration Date: 12/31/96 | Abstract Date: 04/15/93

Facility Name: Coy Paper Company, Inc. | Permit Number: NH0001261

Facility Description: Lightweight paper manufacturer producing specialty tissue paper | SIC Code: 2621

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	-

Abstract Information:
Complete; Outfalls 001 (abstracted as 001A and 001B) and 002.

Outfall: 001A | Receiving Water: Sugar River | Treatment: Neut, Floc

Amount/Components:
0.4 MGD process flow, unquantified River intake filter discharges.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A 100.000000 %	See below	4/year	24hr fw composite
BOD5	Report mg/l 295.000000 lb/d	Report mg/l 300.000000 lb/d		2/month	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	rcorder
P (T)	Report mg/l N/A	N/A N/A		4/year	24hr fw composite
pH	N/A Report	N/A Report	Between 6.5 su and 8 .0 su	continuous	recorder
TSS	Report mg/l 235.000000 lb/d	Report mg/l 350.000000 lb/d		2/month	24hr fw composite

Limitations/Monitoring Basis:
These limitations are applicable for "Production Level 1", defined as current production levels, 9.96 tons/day. The permittee is required to report monthly production levels 1/quarter. Production-based ELGs were calculated for the BOD and TSS limits using 40 CFR Part 430, Subpart X for the pulp and paper industrial category. Total tons of paper produced must be reported for each month in the quarter in terms of tons/day where day refersto the number of calendar days the mill was in operation during the month. Federal anti-backsliding regulations [40 CFR 122.44(l)] require previously existing more stringent limits for BOD and TSS Level 1 (535 and 480 mg/respectively) and Level 2 (645 and 580 mg/l, respectively) daily maximum limits. Also, the average monthly BOD Level 2 limit (355 mg/l) was deleted due to antibacksliding since the existing permit limit was 300 mg/l. Production Level 2 limits apply after prior notice and approval by EPA. Based on ELG, the permittee certified that it does not use chlorophenolic containing biocides in its process. Reporting for maximum daily and average monthly BOD and TSS and phosphorous are required per a requirement that the State certify that no violations of water quality standards will occur. The pH limitation is based on State water quality standards. An acute daily maximum WET limit was calculated based on acceptable instream mixing and the LC50 using undiluted effluent for both a freshwater invertebrate and a vertebrate tested quarterly. A WET monitoring protocal is specified and the results may be reduced if 4 consecutive results show no toxicity. During periods of no discharge, a DMR report of zero for flow, TSS and pH must be filed. Monitoring frequencies were established in accordance with 40 CFR Part 122.41(j), 122.44(i) and 122.48. State policy forms the basis for a narrative effluent limit prohibiting the discharge of floating solids or visible foam in other than trace amounts.

Outfall: 001B | Receiving Water: Sugar River | Treatment: Neut+Floc

Amount/Components:
0.4 MGD process flow unquantified River intake and untreated filter discharges

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A 100.000000 %	See below	4/year	24hr fw composite
BOD5	Report mg/l 300.000000 lb/d	Report mg/l 300.000000 lb/d		2/month	24hr fw composite

Facility Name: Coy Paper Company, Inc. | Permit Number: NH0001261

Facility Description: Lightweight paper manufacturer producing specialty tissue paper | SIC Code: 2621

Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
P (T)	Report mg/l N/A	N/A N/A		4/year	24hr fw composite
pH	N/A Report	N/A Report	Between 6.5 su and 8 .0 su	continuous	recorder
TSS	Report mg/l 285.000000 lb/d	Report mg/l 350.000000 lb/d		2/month	24hr fw composite

Limitations/Monitoring Basis:
See Limitations/Monitoring Basis Discussion for Outfall 001A. These limitations are applicable for "Production Level 2" defined as 12 tons/day on a monthly average. The permittee is required to provide prior notification to EPA of this production level. The permittee is required to report monthly production levels 1/quarter.

Outfall: 002 | Receiving Water: Sugar River | Treatment: Neut+Floc

Amount/Components:
0.4 MGD process flow, unquantified River untreated filter discharges.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report GPD	N/A N/A		1/quarter	estimate
pH	N/A N/A	N/A Report su		1/quarter	grab
TSS	N/A N/A	N/A Report mg/l		1/quarter	grab

Limitations/Monitoring Basis:
Monitoring is required only when outfall is in use.

Special Conditions Basis:
Standard conditions only are set forth, per 40 CFR Part 122.42(a)(1).

Effective Date: 07/26/92 | Expiration Date: 07/26/97 | Abstract Date: 04/22/93

Facility Name: Public Service of New Hamphire | **Permit Number:** NH0001465

Facility Description: Steam electric power generation and distribution | **SIC Code:** 4911

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	-	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	√	√	-	√	√	√

Abstract Information:
Partial; Outfalls 001(representative of 002), 003, 003A, 003B, 004(representative of 005), and 006.

Outfall: 001 | **Receiving Water:** Internal to Outfall 003 | **Treatment:** None specified

Amount/Components:
Unspecified amount of MK-1 condenser outlet non-contact cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A 69.100000 MGD		continuous	calculate
TROs	N/A N/A	N/A 0.200000 mg/l	See below	1/week	grab

Limitations/Monitoring Basis:
The TRO limit applies only when the condenser outlet is in use. The TRO limit is based on ELGs (40 CFR Part 423) for TRC and the previous permit. The permit writer defines TRO as synonomous with TRC. Calculations usinga dissipation factor in the cooling canal of 42:1 resulted in a level of chlorine in the canal discharge of an order of magnitude below the MDL for TRC, thus consistent with the water quality-based TRO limit set for Outfall 003. The preferred method for analyzing TRC is specified. Flow is to be calculated based on pump curves, hours of pump operation, and 190 feet river levels. The basis for monitoring in this permit was described as that needed to yield data representative of the discharges under authority of Section 308(a) of the Clean Water Act. PCBs are prohibited in the discharge. However, the basis for this prohibition was not provided.

Outfall: 003 | **Receiving Water:** Merrimack River | **Treatment:** Sed

Amount/Components:
265 MGD circulating cooling water ash settling and discharge and west yard drain.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
DO	N/A N/A	N/A 75.000000 %	min. saturation	1/month	graab
Flow	N/A 265.300000 MGD	N/A 275.400000 MGD		continuous	calculate
O&G	N/A N/A	N/A Report mg/l		1/month	grab
pH	N/A Report	N/A Report	Between 6.5 su and 8 .0 su	continuous	record
TROs	N/A N/A	N/A 0.026000 mg/l	See below	1/month	grab

Limitations/Monitoring Basis:
The permittee is required to report the instream river pH. The limits for pH are based on State WQSs range. Flow is to be calculated at elevation 190 ft, based on pump curves and hours of pump operation. The TRO limit applies only when the outfall is in use. The TRO limit is water quality-based to protect aquatic life in the Merrimack River, a Class B Waterway. The basis for the DO limit was not discussed. The O&G monitoring requirement is based on state WQSs. If oil sheen is visible, monthly monitoring will be required.

Facility Name: Public Service of New Hamphire | Permit Number: NH0001465

Facility Description: Steam electric power generation and distribution | SIC Code: 4911

Outfall: 003A | Receiving Water: Internal to Outfall 003 | Treatment: Sed

Amount/Components:
4.6 MGD Ash Settling Pond Discharge during normal operation

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cu (T)	N/A N/A	N/A 0.200000 mg/l		1/quarter	grab
Fe (T)	N/A N/A	N/A 1.000000 mg/l		1/quarter	grab
Flow	N/A 9.000000 MGD	N/A 19.100000 MGD		continuous	record
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l		1/month	grab
pH	N/A N/A	N/A Report	See below	continuous	record
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:
The permittee is required to report maximum and minimum pH in su for the month. The limit for Cu(T) was adopted from the current permit. TSS and Fe limits are based on ELGs for the steam electric power generation category (40 CFR Part 423). The permittee's request for a net credit for Fe present in its intake water was rejected by the State since BAT for metal-bearing wastestreams (metal hydroxide precipitation) is installed onsite and is achieving the BAT level of 1.0 mg/l average monthly and daily maximum for the slag pond weir effluent. O&G limits are based on ELGs (40 CFR Part 423). However, water quality standards also form the basis for prohibiting the discharge of oil sheen, floating solids, visible foam in other than trace amounts. Monitoring for O&G includes daily visible monitoring. If oil sheen is present, monthly monitoring is required to satisfy the Statecertification.

Outfall: 003B | Receiving Water: Internal to Outfall 003 | Treatment: Sed, ChOx/Pt

Amount/Components:
9.0 MGD of Ash settling pond discharge during chemical cleaning

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cu (T)	N/A N/A	N/A 0.077000 mg/l		1/day	composite
Fe (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l		1/day	composite
Flow	N/A N/A	N/A 19.100000 MGD		continuous	record
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l		1/day	grab
pH	N/A N/A	N/A Report	See below	continuous	record
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/day	composite

Limitations/Monitoring Basis:
Sampling conducted during chemical cleaning must occur between 3 and 4 hours after discharge from the wastewater treatment basins. Weekend chemical cleaning discharges are prohibited. The Cu limit was based on the Statewater quallity standard, a 10% safety factor representing reserved assimilative capacity, dilution using the 7Q10 of 420 MGD, and hardness-corrected values (based on 50 mg/l hardness as Ca CO3) of 3.9 and 3.0 ug/l acute and chronic toxicity criteria, respectively. The acute toxicity limit for Cu(T) was adopted. TSS and Fe limits are based on ELGs for the steam electric power generation category (40 CFR Part 423). O&G limits are based on ELGs (40 CFR Part 423). However, water quality standards also form the basis for prohibiting the discharge of oil sheen, floating solids, visible foam in other than trace amounts. Monitoring for O&G includes daily visibe monitoring. If oil

sheen is present, monthly monitoring is required to satisfy the State certification. The permittee is required to report the maximum and minimum pH values for the month.

Outfall: 004 | Receiving Water: Merrimack River | Treatment: None specified.

Amount/Components:
Unspecified amount from 5 sources of wash water and fire protection overflow

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report GPD	Estimate total	1/year	estimate
O&G	N/A N/A	N/A Report	See below	1/day	observe
pH	N/A N/A	N/A Report	Between 6.5 su and 8 .0 su	1/year	grab

Limitations/Monitoring Basis:
Permittee must report results of daily observations and sample 1/year if oil sheen is observed. Permittee is required to report range of results of grab samples of each of the 5 pipes that comprise this outfall.

Outfall: 006 | Receiving Water: Merrimack River | Treatment: None specified.

Amount/Components:
Unspecified amount of stormwater from the Southeast yard drain

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report mg/l		1/year	estimate
O&G	N/A N/A	N/A Report mg/l		1/year	grab
pH	N/A N/A	N/A Report su	Report range	1/year	4 grabs
TSS	N/A N/A	N/A Report mg/l		1/year	grab

Limitations/Monitoring Basis:
Permittee is required to report actual stormwater flow based on annual precipitation data or estimated flow from a 10 year, 24 hour rainfall event.

Special Conditions Basis:
The plant is exempt from the temperature ELG due to age. Based on past performance, EPA determined that state water quality temperature standards will be met. Temperature monitoring in the receiving stream is required to be initiated when the river temperature reaches 50 degrees F for the purpose of equipment reliability and employee safety. The permittee must ensure that discharges from 2 pipes containing related wastewater from the intake dredge dewatering lagoon do not increase the naturally occurring turbidity of the Merrimack River by more than 10 NTUs. Simultaneous multi-unit chlrorination or bromination is prohibited. The permittee must notify the State one month prior to switching to bromination. Outfall 003B chemical cleaning operations may not occur more than 30 days each year, and may not be performed during weekends unless provisions are made with the NHDES. The coal pile may not allowed to discharge runoff to the ash ponds without treatment in the wastewater treatment facility. Water drawn from fuel oil tanks is prohibited from being discharged. River intake screens mustbe cleaned and natural debris such as tree branches, fish, shellfish and aquatic organisms collected in the screens must be returned to the river. Other solid waste collected in the screens must be landfilled. Screen design may not be changed without prior approval of the EPA. The plant's power spray module system to cool the water must be operated to maintain a mixing zone river temperature not to exceed 69 degrees F, or a change in temperature of not more than one degree F when the ambient river temperature exceeds 68 degrees F. All available power spray modules must be operated when both criteria listed above are exceeded. The permit requires continuous river surface monitoring conditions for temperature, pH and DO. These data must be submitted 1/year. A (BMP) plan for segregation of the ash settling ponds from nearby wetlands must be submitted to the State for approval within one year of the permit effective date. Within 90 days of approval, construction of ash pond structures must begin and the permittee is required to notify EPA construction of ash pond structures, etc. must be completed. A technical advisory committee composed of several agencies was appointed to set up a study program for the thermal characteristic, anadromous fish, fish impingement and pump entrainment relative to the discharge. The committee members are negotiating an agreement relative to the

Facility Name: Public Service of New Hamphire	Permit Number: NH0001465
Facility Description: Steam electric power generation and distribution	SIC Code: 4911

anadromous fish at hydroelectric facilities on the Merrimack River. Their findings will be incorporated into future modifications of this permit, andform the basis for permit requirements to conduct impingement monitoring. The permittee is required to report extraordinary impingement events. Furthermore, the PSNH is required to conduct river Herring Ichthyoplankton and American Shad Ichthyoplankton pump entrainment monitoring from Jun 15-Jul 15 (the migration period past the Hooksett Dam). Requirements for data reporting to the various agencies involved in these studies as well as meetings to be scheduled between the facility and the agencies are set forth in the permit. The current permit requires impingement monitoring by collecting all fish from both condenser outlets once during Jul 1-Oct 15.

Effective Date: N/A	Expiration Date: N/A	Abstract Date: N/A

Facility Name: Process Engineering, Inc. | **Permit Number:** NH0020788

Facility Description: Fabrication of metal products, stainless steel, Al and alloy | **SIC Code:** 3433

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	-	-	-	-

Abstract Information:
Partial; Outfall 001, representative of Outfalls 002, 003, 004, 005, 007, 010, and 011.

Outfall: 001 | **Receiving Water:** Little River via wetlands | **Treatment:** None

Amount/Components:
100 GPD consisting of stormwater, infiltration groundwater, and X-Ray developing wastewater

	Limitations			Monitoring Requirements	
Parameter	Average	Daily Maximum	Other	Frequency	Sample Type
Al (T)	N/A N/A	N/A Report mg/l		1/quarter	composite
Cu (T)	N/A N/A	N/A Report mg/l		1/quarter	composite
Fe (T)	N/A N/A	N/A Report mg/l		1/quarter	composite
Flow	N/A N/A	N/A Report GPD		1/quarter	estimate
Mn (T)	N/A N/A	N/A Report mg/l		1/quarter	composite
O&G	N/A N/A	N/A 15.000000 mg/l		1/quarter	grab
pH	N/A N/A	N/A Report su	Report min. and max.	1/quarter	grab
TSS	N/A N/A	N/A Report mg/l		1/quarter	composite
Zn (T)	N/A N/A	N/A Report mg/l		1/quarter	composite

Limitations/Monitoring Basis:
Outfall 001 is limited for O&G based on previous permit (antibacksliding) and BPJ. A narrative standard specifies no discharge of floating of solids or visible foam in other than trace amounts. The basis for monitoring for the other parameters was not discussed. Grab samples must be collected during normal business hours, and although composite samples are required for TSS and metals, the permit did not indicate the sampling period to beused. Stormwater runoff must be monitored quarterly using a program where 2 outfalls of the 8 total outfalls are sampled each quarter resulting in each outfall being sampled in a 12 month period. The stormwater sample can be collected during any precipitation event which causes flow and can be sampled in the discharge pipe. Sampling procedures described in the NPDES Storm Water Sampling Guidance Document (EPA 833-B-92-001, July, 1992) were recommended in the permit.

Special Conditions Basis:
A BMP plan must be developed and initiated within 180 days of the effective date of the permit effective date. All construction must be completed within 21 months of the effective date. The plan must address controls to prevent releases of toxic and hazardous pollutants and be consistent with EPA's NPDES Best Management Practices Guidance Document. It must contain stormwater pollution prevention plan, SPCC plans (if applicable), RCRA management contain a stormwater pollution prevention plan, SPCC plans (if applicable), RCRA management procedures or practices. The BMP plan must be updated and reviewed by an inplant engineer.

Effective Date: 10/11/92 | **Expiration Date:** 10/11/97 | **Abstract Date:** 05/24/93

Facility Name: Bio-Energy Corporation | Permit Number: NH0021652

Facility Description: Steam Electric Power Generation from woodchips | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	-	-	√	-

Abstract Information:
Complete: Outfalls 001A, 001B, SW-1

Outfall: 001A | Receiving Water: Contoocook River | Treatment: None specified

Amount/Components:
63,000 GPD process wastewater cooling tower and boiler blowdown(11,000 GPD) stormwater runoff.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A 8800.000000 GPD	N/A 11000.000000 GPD	Multiply value by 10	continuous	Total Daily
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l		2/month	grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .0 su	2/month	grab
Temp.	N/A N/A	N/A 90.000000 F		2/month	grap
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		2/month	8hr composite

Limitations/Monitoring Basis:
Because ELGs have not been established for power generation using wood chips, the limitations are based on the previous permit (anti-backsliding) and BPJ using ELGs for the Steam Electric Power Generating Point Source Category (40 CFR Part 423). This includes TSS, O&G limits using low-volume waste category as well as the priority pollutant monitoring requirements. No monitoring frequency was provided for priority pollutants. Compliance was established as being determined by engineering calculations to demonstrate the regulated pollutants are not detected. State water quality standards form the basis for the pH and temperature standards, as well as five narrative effluent limits for Outfalls 001A and 001B. These include 1) the discharge cannot cause a violation of water quality standards or result in demonstrable harm to aquatic life 2) the discharge cannot cause objectionable color, odor, or turbidity, 3) chlorination may not be used for biofouling control, 4) chromium may not be used as a cooling tower maintenance chemical, and 5) discharge of PCBs is prohibited. BPJ using Steam Electric Power Generation ELGs forms the basis for the permit requirement that, except for zinc (which is numerically limited) and chromium (which the facility certifies is not used in the cooling tower maintenance), none of the126 priority pollutants contained in cooling tower maintenance chemicals shall be present in detectable amounts in the effluent (using 40 CFR Part 136 methods). However, no monitoring nor reporting conditions accompaniedthis prohibition. An additional water quality-based prohibition also applies as follows: the effluent may not contain a visible oil sheen, foam, floating solids.

Outfall: 001B | Receiving Water: Internal to Outfall 001A | Treatment: None specified

Amount/Components:
Cooling tower blowdown

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
FAC	N/A 0.200000 mg/l	N/A 0.500000 mg/l	See below	2/month	grab
Flow	N/A 20000.000000 GPD	N/A N/A		continuous	total daily

Facility Name: Bio-Energy Corporation | **Permit Number:** NH0021652

Facility Description: Steam Electric Power Generation from woodchips | **SIC Code:** 4931

Zn (TR)	N/A 1.000000 mg/l	N/A 1.000000 mg/l		2/month	8hr composite

Limitations/Monitoring Basis:
FAC is used as defined in 40 CFR Part 423.11(1). The permit specifies the EPA test method. The limitation for FAC is BPJ-based using the once through cooling water category in 40 CFR Part 423. The Zn limits are also BPJ-based using 40 CFR Part 423. Five narrative effluent limits are shown in the Limitations/Monitoring Basis Discussion for Outfall 001A.

Outfall: SW-1 | **Receiving Water:** Contoocook River | **Treatment:** None specified

Amount/Components:
Unspecified amount stormwater

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report		2/year	estimate
O&G	N/A N/A	N/A Report		2/year	grab
pH	N/A N/A	N/A Report	Report range, su	2/year	grab

Limitations/Monitoring Basis:
For the stormwater discharge (Outfall SW-1), two storm events must be sampled (according to 40 CFR Part 136 methods) during the periods March 1- April 30 and September 1- October 30 using grab samples collected during normal business hours. A discussion of the basis of the remaining monitoring conditions was not provided.

Special Conditions Basis:
Permit conditions specify an approved list and maximum dosage of water treatment chemicals for use in the boiler and cooling water power generation processes onsite. The chemicals may not be increased, substituted or intermixed without prior State approval. Justification for prohibiting intermixing of different brands or combinations of water treatment chemicals is that there are no toxicity studies showing whether synergistic or antagonistic effects will occur in the receiving stream if chemical mixing is allowed. A BMP plan is required to minimize the potential for violations of the terms of the permit, including water quality standards, human health and the environment. It must establish specific objectives for control of toxic and hazardous pollutants and be consistent with the EPA guidance entitled, "NPDES Best Management Practices Guidance Document." The BMP planis due 180 days from the permit effective date. A stormwater pollution plan, spill prevention plan and hazardous waste management plan must be included in the BMP plan. Additional standard conditions are set forth per 40 CFR Part 122.42 (a)(1).

Effective Date: 08/01/92 | **Expiration Date:** 07/01/97 | **Abstract Date:** 04/20/93

Facility Name: Hackensack Water Company | Permit Number: NJ0003310

Facility Description: Industrial water treatment plant | SIC Code: 4941

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	√

Abstract Information:
Complete; Outfall 004

Outfall: 004 | Receiving Water: Hackensack River | Treatment: Sludge lagoon

Amount/Components:
0.01286 MGD of decant water from sludge lagoons.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Fe (T)	N/A 1.500000 mg/l	N/A 2.000000 mg/l		1/month	Grab
Flow	N/A N/A	N/A Report mgd		1/month	Measure
pH	N/A Report	N/A N/A	Between 6.0 su and 9.0 su	1/month	Grab
TOC	N/A N/A	N/A 20.000000 mg/l		1/month	Grab
TPH	N/A N/A	N/A 10.000000 mg/l		1/month	grab
TSS	N/A 20.000000 mg/l	N/A 40.000000 mg/l		1/month	Grab

Limitations/Monitoring Basis:
Monitoring for flow is required in accordance with the provisions of NJAC 7:14A-3.13(a)12.i and with Federal anti-backsliding provisions of 40 CFR 122.44(1). Limitations for TSS, pH, petroleum hydrocarbons, Fe(T), and TOC are based on existing permit limitations and in accordance with the anti-backsliding provisions stated above.

Special Conditions Basis:
A reopener clause is present based on the discharge of toxic pollutants. No discharge of floating solids or visible foam, in other than trace amounts is allowed. No visible sheen is allowed. Laboratory and sampling personnel shall report if there is any visible sheen on the water sample or if any odors are detected. Sampling shall occur on a quarterly basis when there is an active water flow due to a truck transfer of partially dewatered sludge into the lagoons. If a representative sample cannot be obtained or if there are problems obtaining the sample, the permittee should notify the Department of Environmental Protection and Energy within 10 businessdays. For these quarterly samples, pH is limited to 5.0 s.u. to 9.0 s.u., and petroleum hydrocarbons are limited to 20 mg/l. Conditions are provided in the permit for residuals management. Residuals management conditions have been developed in accordance with NJPDES Regulations, NJAC 7:14A-1, and the Sludge Quality Assurance Regulations, NJAC 7:14A-4. The permit contains general conditions and requirements for the infiltration-percolation lagoons.

Effective Date: 03/01/93 | Expiration Date: 02/28/98 | Abstract Date: 09/09/93

Facility Name: American Biltrite, Inc. Permit Number: NJ0031895

Facility Description: Floor tile manufacturer SIC Code: 3996

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	=	=	=	√	=	=	=	=	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	=	=	=	=	=	=	=	√

Abstract Information:
Complete; Outfalls 001 and 002

Outfall: 001 | Receiving Water: Storm sewer to Assumpink Creek | Treatment: None

Amount/Components:
0.086 MGD stormwater runoff

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
COD	N/A N/A	N/A 100.000000 mg/l		1/month	Grab
Flow	N/A Report mgd	N/A N/A		1/month	Calculate
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	1/month	Grab
TPH	N/A N/A	N/A 15.000000 mg/l		1/month	Multiple grab
TSS	N/A N/A	N/A 50.000000 mg/l		1/month	Grab

Limitations/Monitoring Basis:
Limitations for petroleum hydrocarbons are imposed in accordance with the Oil and Grease Effluent Limitations, NJAC 7:14A-14.1 et seq. Limitations for pH, COD, and TSS are based on EPA Regional Guidance for storm water discharges consistent with Section 402 of the CWA as amended. Regional guidance is based on a memorandum from EPA Chief of Toxic and Inorganic Wastes Section, Water Facilities Branch. These limits are less sstringent thanthose in the last permit as these represent storm water discharges and the previous permit represented cooling water discharge. pH limitations are based on existing permit limitations and are consistent with the anti-backsliding provisions of NJAC 7:14A-3.13(a)12.i. No discharge of floating solids or visible foam is allowed in other than trace amounts and no visible sheen is permitted. Samples must be collected during the first discharge event of the month occurring during working hours. Samples for petroleum hydrocarbons must be collected during the first precipitation event of the month which causes a discharge during working hours and is preceded by aminimum dry period of 72 hours. Samples for petroleum hydrocarbons must be taken 15, 30, and 45 minutes after the onset of the discharge. pH must not be lower than the measured pH of the rainfall.

Outfall: 002 | Receiving Water: Storm sewer to Assumpink Creek | Treatment: None

Amount/Components:
0.318 MGD stormwater, untreated contact and noncontact cooling water, and water from a pneumatic condensate tank.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
COD	N/A N/A	N/A 100.000000 mg/l		1/month	Grab
Flow	N/A Report mgd	N/A N/A		1/month	Calculate
pH	N/A N/A	Report N/A	Between 6.0 su and 9 .0 su	1/month	Grab
TPH	N/A N/A	N/A 15.000000 mg/l		1/month	grab

Facility Name: American Biltrite, Inc. | Permit Number: NJ0031895

Facility Description: Floor tile manufacturer | SIC Code: 3996

TSS	N/A N/A	N/A 50.000000 mg/l		1/month	Grab

Limitations/Monitoring Basis:

Limitations for petroleum hydrocarbons are imposed in accordance with the Oil and Grease Effluent Limitations, NJAC 7:14A-14.1 et seq. Limitations for pH, COD, temp., and TSS are based on EPA Regional Guidance for storm water and cooling water discharges consistent with Section 402 of the CWA as amended. Regional guidance is based on a memorandum from EPA Chief of Toxic and Inorganic Wastes Section, Water Facilities Branch. Temperature and pH limitations are based on existing permit limitations and are consistent with the anti-backsliding provisions of NJAC 7:14A-3.13(a)12.i and 40 CFR Part 122.44. No discharge of floating solids or visible foam is allowed in other than trace amounts and no visible sheen is permitted. pH must not be lower than the measured pH of the rainfall.

Special Conditions Basis:

A toxic pollutant discharge reopener clause is present in the permit. If the permittee begins using biocides or other cooling water additives, the permittee must notify the Department of Environmental Protection and Energy (Department) at least 180 days prior to use so that the permit may be reopened to incorporate any additional limitations deemed necessary. No discharge of pollutants from Outfall 003 is allowed. Beginning one year after the permit effective date, the permittee is required to provide an effluent characterization consisting of twelve quarterly samples taken at two internal points just after the contact cooling process before mixing with other waste water. The effluent must be sampled for priority pollutants, base neutrals, volatiles, and chlorine produced oxidants. If the first four consecutive samples for an individual parameter are nondetects, sampling for that parameter may be discontinued for the rest of the 3 year effluent characterization period. The effluent characterization is consisten with procedures presented in EPA's Technical Support Document for Determining Water Quality Based Effluent Limitations. The permittee must submit an Effluent Characterization Study Report which summarizes the data collected for each parameter detected. This report will be used to determine if water quality based effluent limitations or technology based limits are necessary to protect the designated use of the receiving water body. A BMP Plan must be developed within 6 months of the permit's effective date and submitted to the Department within 1 year of the effective date of the permit. Limestone dust must be prevented from entering the discharge to Outfalls 001 and 002 through good housekeeping practices. A specific plan for the storage, disposal, and transfer of limestone dust must be developed.

Effective Date: 01/01/93 | Expiration Date: 12/31/97 | Abstract Date: 09/13/93

Facility Name: Atlantic Metal Products, Inc. | Permit Number: NJ0070696

Facility Description: Sheet metal manufacturer | SIC Code: 3444

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	-	-	-	-	-	✓

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	✓	✓

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | Receiving Water: Elizabeth River | Treatment: None.

Amount/Components:
7500 gpd of untreated non-contact cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
COD	N/A N/A	N/A 50.000000 mg/l		1/month	Grab
Flow	N/A N/A	N/A Report gpd		1/month	Meter
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	1/month	Grab
Temp.	N/A N/A	N/A 86.000000	Units: degrees Faren heit	1/month	Grab
TPH	N/A 10.000000	N/A 15.000000 mg/l		1/month	grab
TSS	N/A N/A	N/A 20.000000 mg/l		1/month	Grab

Limitations/Monitoring Basis:
Monitoring for flow is required pursuant to NJAC 7:14A-3.13(a)9.i.(2) and the NJPDES regulations fee calculation requirements. Limitations for pH, temperature, and COD are based on EPA Region 2's "Permit Development Guidance Cooling Water-Surface Water Runoff," December 8, 1978. Limitations for petroleum hydrocarbons are based on NJAC 7:14A-14.1, the NJ oil and grease regulations. No limitations basis is provided for TSS.

Special Conditions Basis:
A toxic pollutant discharge reopener clause is included. Beginning one year after the permit effective date, the permittee is required to collect a grab sample for chlorine produced oxidants once per quarter. If the initial four quarterly samples for chlorine produced oxidants result in levels below detection, sampling may be discontinued. The permittee is required to notify the permitting authority at least 180 days before using biocides or other cooling water additives so that the permit may be reopened to incorporate any limitations deemed necessary.

Effective Date: 01/01/93 | Expiration Date: 12/31/97 | Abstract Date: 09/10/93

Facility Name: The Glidden Company | Permit Number: OH0000621

Facility Description: Manufactures resins and coatings for use in linings, paint, etc. | SIC Code: 2851

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfalls 001, 601, and 602.

Outfall: 001 | Receiving Water: Huron River | Treatment: Not specified

Amount/Components:
0.12 mgd process wastewater sanitary wastewater, boiler and cooling tower blowdown and softener regeneration.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 20.000000 mg/l	N/A 30.000000 mg/l		1/week	grab or composite
Chronic WET	N/A Report	N/A Report	See below	6/year	24 hr composite
Cu (T)	N/A N/A	N/A 44.000000 ug/l		1/month	grab
Filterable Residue (T)	N/A N/A	N/A Report		1/month	grab
Flow	N/A Report mgd	N/A Report mgd		continuous	total
Hexachlorobenzene	N/A Report ug/l	N/A Report ug/l		1/month	grab
NO2	N/A Report mg/l	N/A Report mg/l		1/month	grab
Nonfilterable residue (T)	N/A 30.000000 mg/l	N/A 45.000000 mg/l		1/week	grab or composite
O&G	N/A N/A	N/A 10.000000 mg/l		1/week	grab
P (T)	N/A Report mg/l	N/A Report mg/l		1/month	grab
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/month	grab
pH	N/A N/A	N/A Report	Between 6.5 SU and 9.0 SU	1/week	grab
Temp.	N/A Report	N/A Report	Units: degrees C	1/week	grab
TTOs	N/A N/A ug/l	N/A 2130.000000 ug/l	See below	once	Not given
Zn (T)	N/A N/A	N/A 270.000000 ug/l		1/month	grab

Limitations/Monitoring Basis:
Limits for BOD5 and TSS are based on the previous permit and/or Ohio EPA policy. Copper and zinc limitations were based on calculated WLAs and antibacksliding (Zn). Effluent characterization revealed marginally elevated concentrations of NO2, P(T), and hexachlorobenzene, therefore, monitoring was recommended. The State EPA recommended monitoring for Pb to verify that it is net contributing to current use impairments. Earlier bioassays revealed chronic toxicity in approximately one third of the samples. Chronic WET monitoring using ceriodaphnia and pimephales and 5 dilutions is required for one year following procedures provided in the permit and State guidance documents. The permittee is required to determine LC50 and for EC50, LOEC and NOEC for each test species using appropriate exposure time. Water quality standards were used to establish limitations for oil and grease and pH. The option for TTOs monitoring and/or certification were based on the current permit and BPJ. If the permittee

Facility Name: The Glidden Company	Permit Number: OH0000621
Facility Description: Manufactures resins and coatings for use in linings, paint, etc.	SIC Code: 2851

chooses certification, a toxic organic management plan is due within 90 days after completion of a wastewater characterization monitoring program. A certification statement must be submitted 1/month attesting to no dumping of TTOs into wastewater discharges, and the implementation of the TTO management plan. The basis for the other limits or monitoring requirements were not provided.

Outfall: 601 | Receiving Water: Internal to Outfall 001 | Treatment: Scr, AS, Fil, Dis

Amount/Components:
Unspecified amount of sanitary wastewaters, boiler and cooling tower blowdown and softener regeneration.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
CBOD5	N/A 10.000000 mg/l	N/A 15.000000 mg/l		1/month	grab or composite
Color	N/A Report	N/A Report	See below	1/day	observe
Cu (T)	N/A Report ug/l	N/A Report ug/l		1/month	grab
FC	N/A 1000.000000	N/A 2000.000000	#/100 ml, summer onl y	1/month	grab
Flow	N/A Report mgd	N/A Report mgd		1/day	total
Nonfilterable res idue (T)	N/A 12.000000 mg/l	N/A 18.000000 mg/l		1/month	grab or composite
pH	N/A N/A	N/A Report	Between 6.5 SU and 9 .0 SU	1/month	grab
TRC	N/A N/A	N/A 0.500000 mg/l	Summer only	1/month	grab

Limitations/Monitoring Basis:
The permittee is required to observe and report color, odor and turbidity according to a severity table provided in the permit. The limits for CBOD5 and TRC are based on State policy. Copper is to be monitored because it is known to be present, but is not expected to be in concentrations of concern. The FC and pH limits are based on WQSs. The basis for other monitoring conditions were not discussed.

Outfall: 602 | Receiving Water: Internal to Outfall 001 | Treatment: AerL

Amount/Components:
Unspecified amount of under drainage from fields where process wastewater was sprayed.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/month	grab
Cr (T)	N/A Report ug/l	N/A Report ug/l		1/month	grab
Cr+6 (DS)	N/A Report ug/l	N/A Report ug/l		1/month	grab
Flow	N/A Report mgd	N/A Report mgd		1/month	24 hour total
TTOs	N/A Report ug/l	N/A Report ug/l		once	not given

Facility Name: The Glidden Company					Permit Number: OH0000621
Facility Description: Manufactures resins and coatings for use in linings, paint, etc.					SIC Code: 2851
Zn (T)	N/A Report ug/l	N/A Report ug/l		1/month	grab

Limitations/Monitoring Basis:
The limits for pH are based on WQSs. The basis for the other monitoring conditions were not discussed.

Special Conditions Basis:
The permit contains a reopener based on the promulgation of applicable regulations or standards with more stringent limitations or conditions or regulatory a pollutant not limited in the permit. It also contains a reopener based on stream use determinations or waste load allocations. The permittee is required to obtain written permission before initiating the use of cooling water treatment additives.

Effective Date: 09/09/88 Expiration Date: 09/06/93 Abstract Date: 06/15/93

Facility Name: BP Chemicals of America Inc. | Permit Number: OH0002615

Facility Description: Manufactures ammonia, urea, nitric acid, ammonium nitrate, and other. | SIC Code: 2873

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	=	√	=	√	=	√	=	=	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	=	=	=	=	=	=	√

Abstract Information:
Partial; outfalls 001 (A and B for abstracting purposes) 002 (representative of 003 and 004) and 603.

Outfall: 001A | Receiving Water: Ottawa River | Treatment: Sed, Neut, AirS, IE, AS

Amount/Components:
4.23 mgd discharge consisting of storm water from production areas, non-contact cooling water, cooling tower blowdown, and sanitary wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acetonitrile	N/A N/A	N/A Report mg/l		1/week	composite
Acrylonitrile	0.412000 kg/d 30.000000 ug/l	0.825000 kg/d 60.000000 ug/l		1/week	composite
CBOD5	110.000000 kg/d 8.000000 mg/l	220.000000 kg/d 16.000000 mg/l		1/week	composite
Chronic WET	N/A N/A	N/A Report	See below	1/year	24hr composite
CN (T)	N/A N/A	0.550000 kg/d 0.040000 mg/l		1/month	composite
DO	N/A 5.000000 mg/l	N/A 4.000000 mg/l	Limit is minimum	1/week	grab
Flow	N/A N/A	N/A Report mgd		1/day	24 hour total
NH3	206.000000 kg/d 15.000000 mg/l	412.000000 kg/d 30.000000 mg/l		4/week	composite
NO2-N	N/A N/A	N/A Report mg/l		1/month	composite
NO3-N	N/A N/A	137.000000 kg/d 10.000000 mg/l		1/week	composite
Nonfilterable residue (T)	412.000000 kg/d 30.000000 mg/l	825.000000 kg/d 60.000000 mg/l		1/week	composite
O&G	N/A N/A	137.000000 kg/d 10.000000 mg/l		1/week	grab
Organic-N	386.000000 kg/d N/A	773.000000 kg/d N/A		1/week	composite
P (T)	N/A N/A	21.000000 kg/d 1.500000 mg/l		1/week	composite
pH	N/A N/A	N/A Report	Between 6.5 SU and 9.0 SU	continuous	not given
Tl (T)	N/A Report ug/l	N/A Report ug/l		1/month	grab
Urea	N/A N/A	N/A Report mg/l		1/week	composite

Limitations/Monitoring Basis:
Outfall 001A was created for abstracting purposes and represents limits for Outfall 001 that are effective from permit issuance until the permittee has completed any necessary construction to achieve final limitations, and no

Facility Name: BP Chemicals of America Inc. | Permit Number: OH0002615

Facility Description: Manufactures ammonia, urea, nitric acid, ammonium nitrate, and other. | SIC Code: 2873

longer than 36 months from permit issuance. The permit contains a compliance schedule for achieving the final limitations for CN(T) and acrylonitrile, as well as installation of internal monitoring station 603. CBOD5 limitations based on existing permit. Acrylonitrile and acetonitrile limitations were imposed because they were detected in the effluent. O&G limitations are based on existing effluent quality (EEQ). Phosphorous is required to be limited due to an international agreement between Canada and the United States (Great Lakes Agreement). Biomonitoring is required in response to observed water quality degradation in the vicinity of the discharges. Chronic toxicity testing is to be conducted using 2 species and 5 dilutions, following State and EPA guidance manuals. Specified chemical analyses are to be conducted using the same samples. The permittee is required to determine an LC50 and/or an EC50 and a LOEC and a NOEC. Information to be incluedeed in the report summarizing the results are outlined in the permit. Nitrogenous compounds are believed to be contributors to knownstream degradation problems. As criteria for nitrites are under review, monitoring with no limits are included. Daily maximum limits for nitrates are based on existing effluent quality, and no monthly average is required because measurements show existing concentrations to be lower than current permit limits. Current permit limits for total organic N are continued because nitrogenous compounds are believed to be responsible for nonattainable stream uses. Ammonia-N and CN limits are based on waste load allocations procedures and state policy; DO limits are based on WGSs. The basis for the limits for nonfilterable residue was not discussed. Urea, flow, and pH monitoring are based on existing State EPA policy. Excursions from the pH range are permitted subject to the following: the total time the pH values are outside the given range must not exceed 7 hours and 26 minutes in any calendar month, and no individual excursion is allowed to exceed 60 minutes. TSS was based on effluent quality.

Outfall: 001B | Receiving Water: Ottawa River | Treatment: Sed, Neut, AirS, IE, AS

Amount/Components:
4.23 mgd discharge consisting of storm water from production areas, non-contact cooling water, cooling tower blowdown, and sanitary wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acetonitrile	N/A N/A	N/A Report ug/l		1/week	composite
Acrylonitrile	0.412000 kg/d 30.000000 ug/l	0.825000 kg/d 60.000000 ug/l		1/week	composite
CBOD5	110.000000 kg/d 8.000000 mg/l	220.000000 kg/d 16.000000 mg/l		1/week	composite
Chronic WET	N/A N/A	N/A Report	See below	1/year	24hr composite
CN (T)	N/A N/A	0.180000 kg/d 0.013000 mg/l		1/month	composite
DO	N/A 5.000000 mg/l	N/A 4.000000 mg/l	Limit is minimum	1/week	grab
Flow	N/A N/A	N/A Report mgd		1/day	total
NH3	206.000000 kg/d 15.000000 mg/l	412.000000 kg/d 30.000000 mg/l	See below	4/week	composite
NO2-N	N/A N/A	N/A Report ug/l		1/month	composite
NO3-N	N/A N/A	137.000000 kg/d 10.000000 mg/l		1/week	composite
Nonfilterable residue (T)	412.000000 kg/d 30.000000 mg/l	825.000000 kg/d 60.000000 mg/l		1/week	composite
O&G	N/A N/A	137.000000 kg/d 10.000000 mg/l		1/week	grab
Organic-N	386.000000 kg/d N/A	773.000000 kg/d N/A		1/week	composite
P (T)	N/A N/A	21.000000 kg/d 1.500000 mg/l		1/week	composite
pH	N/A N/A	N/A Report	Between 6.5 SU and 9.0 SU	Continuous	not given

Facility Name: BP Chemicals of America Inc. **Permit Number:** OH0002615

Facility Description: Manufactures ammonia, urea, nitric acid, ammonium nitrate, and other. **SIC Code:** 2873

Tl (T)	N/A Report ug/l	N/A Report ug/l		1/month	grab
Urea	N/A N/A	N/A Report mg/l		1/week	composite

Limitations/Monitoring Basis:
Outfall 001B was created for abstracting purposes and represents limits for Outfall 001 that are effective no later than 36 months from the effective date of the permit and lasting until the expiration date. See the basis for Outfall 001A. The limits shown for NH3 represents winter limits. The summer limits are monthly averages 103 kg/d and 7.5 mg/l, and daily maximums 206 kg/d and 15 mg/l.

Outfall: 002 | **Receiving Water:** Ottawa River | **Treatment:** None

Amount/Components:
1.56 mgd untreated stormwater discharge.

	Limitations			Monitoring Requirements	
Parameter	Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report mgd		1/day	total
NH3	N/A N/A	N/A Report mg/l		1/month	grab
O&G	N/A N/A	N/A 10.000000 mg/l		1/month	grab
pH	N/A N/A	N/A Report	Between 6.5 SU and 9.0 SU	1/month	grab
Urea	N/A N/A	N/A Report mg/l		1/month	grab

Limitations/Monitoring Basis:
Flow and Urea monitoring requirements are based on state policy. The O&G limit is based on WGSs, and the NH3 limit is based on water quality criteria.

Outfall: 603 | **Receiving Water:** Internal to Outfall 001 | **Treatment:** None specified

Amount/Components:
Unspecified amount of process flows from the chem seps ion exchange unit.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/day	total
NO3	N/A 11.300000 mg/l	N/A 34.600000 mg/l		1/week	composite

Limitations/Monitoring Basis:
The basis for the limits and monitoring conditions were not provided.

Special Conditions Basis:
The permit requires the facility to have a BMP program in place including a storm water management plan to control pollutants in the discharges from Outfall 002, 003, and 004. The permittee must receive written permission before using cooling water treatment additives. The permit contains a reopener based on the development of water quality standards, stream use determinations, and/or wasteload allocations.

Effective Date: 12/29/89 **Expiration Date:** 12/26/94 **Abstract Date:** 06/21/93

Facility Name: Ohio Valley Electric Corp. | Permit Number: OH0005282

Facility Description: Generates electricity from coal fired plant | SIC Code: 4911

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	-	-	√	√

Abstract Information:
Partial: Outfalls 001, 002, 003 (represents 093), 005, 006, 007. Where compliance is phased, outfall designations A and B used for abstracting purposes.

Outfall: 001A | Receiving Water: Ohio River | Treatment: Sed

Amount/Components:
2.5 MGD of bottom ash sluice.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Cd (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Cu (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hour total
Hg (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab
Nonfilterable residue (T)	284.000000 kg/d 30.000000 mg/l	946.000000 kg/d 100.000000 mg/l		1/week	grab
O&G	142.000000 kg/d 15.000000 mg/l	189.000000 kg/d 20.000000 mg/l		1/month	grab
Pb (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
pH	N/A Report SU	N/A Report SU	Between 6.0 su and 9.0 su	1/week	grab
Zn (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab

Limitations/Monitoring Basis:
Outfall 001A was created for abstracting purposes. Outfall 001A limitations are effective for the first 3 years from the effective date of the permit. Residue (total nonfilterable) and oil and grease limits are based on calculated waste load allocations (WLA), and the State surface water toxic strategy. pH limits are based on State water quality standards. Cadmium and zinc monitoring requirements are based on water quality standards. The loading limitations were calculated using a flow of 2.5 MGD. Flow monitoring at all outfalls is based on State Policy.

Outfall: 001B | Receiving Water: Ohio River | Treatment: Sed

Amount/Components:
2.5 MGD of bottom ash sluice.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Cd (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Cu (TR)	N/A N/A	0.350000 kg/d 37.000000 ug/l		1/week	grab
Flow	N/A Report mgd	N/A Report mgd		Daily	24 hour total

Facility Name: Ohio Valley Electric Corp. | Permit Number: OH0005282

Facility Description: Generates electricity from coal fired plant | SIC Code: 4911

Hg (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab
Nonfilterable residue (T)	284.000000 kg/d 30.000000 mg/l	946.000000 kg/d 100.000000 mg/l		1/week	grab
O&G	142.000000 kg/d 15.000000 mg/l	189.000000 kg/d 20.000000 mg/l		1/month	grab
Pb (TR)	0.260000 kg/d 28.000000 ug/l	2.460000 kg/d 260.000000 ug/l		1/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
Zn (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab

Limitations/Monitoring Basis:
Outfall 001B was created for abstracting purposes. Outfall 001B limitations become effective after 3 years from the permit effective date. See the basis discussion for Outfall 001A.

Outfall: 002A | Receiving Water: Internal to Outfall 003 | Treatment: API

Amount/Components:
0.1 MGD of turbine room sump, transformer deck stormwater runoff, oil room sump.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cd (TR)	N/A Report ug/l	N/A Report ug/l		1/week	composite
Cu (TR)	N/A Report ug/l	N/A Report ug/l		1/week	composite
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hour total
Hg (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	composite
Nonfilterable residue (T)	11.400000 kg/d 30.000000 mg/l	37.850000 kg/d 100.000000 mg/l		1/2 weeks	composite
O&G	5.700000 kg/d 15.000000 mg/l	7.600000 kg/d 20.000000 mg/l		1/month	composite
Pb (TR)	Report kg/d Report ug/l	Report kg/d Report ug/l		1/week	composite
pH	N/A Report	N/A Report	Between 6.5 su and 9.0 su	1/2 weeks	composite
Zn (TR)	N/A Report ug/l	N/A Report ug/l		1/week	composite

Limitations/Monitoring Basis:
Outfall 002A was created for abstracting purposes. Outfall 002A limitations are effective for the first 3 years from the permit effective date. The loading limitations were calculated using a flow of 0.1 MGD. Cadmium, copper, lead and mercury are based on calculated WLA and the State Surface Waster Toxic Strategy. Total non-filterable residue and oil and grease are based on BPT (40 CFR Part 423.12). pH is based on State water quality standards.

Facility Name: Ohio Valley Electric Corp. | Permit Number: OH0005282

Facility Description: Generates electricity from coal fired plant | SIC Code: 4911

Outfall: 002B | Receiving Water: Internal to Outfall 003 | Treatment: API

Amount/Components:
0.1 MGD of turbine room sump, transformer deck stormwater runoff, oil room sump.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Cd (TR)	N/A Report ug/l	N/A Report ug/l		1/week	composite
Cu (TR)	Report Report ug/l	0.014000 kg/d 37.000000 ug/l		1/week	composite
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hour total
Hg (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	composite
Nonfilterable residue (T)	11.400000 kg/d 30.000000 mg/l	37.850000 kg/d 100.000000 mg/l		1/2 weeks	composite
O&G	5.700000 kg/d 15.000000 mg/l	7.600000 kg/d 20.000000 mg/l		1/month	composite
Pb (TR)	0.011000 kg/d 28.000000 ug/l	0.098000 kg/d 260.000000 ug/l		1/week	composite
pH	N/A Report	N/A Report	Between 6.5 su and 9.0 su	1/2 weeks	grab
Zn (TR)	Report kg/d Report ug/l	0.110000 kg/d 300.000000 ug/l		1/week	composite

Limitations/Monitoring Basis:
Outfall 002B was created for abstracting purposes. Outfall 002B limitations become effective after 3 years from the permit effective date. See the basis discussion for Outfall 002A. Cadmium, copper, lead, and mercury are based on calculated WLA. Total non-filterable residue and oil and grease are based on BPT(40 CFR Part 423.12). pH is based on State water quality standards.

Outfall: 003 | Receiving Water: Ohio River | Treatment: None.

Amount/Components:
Unspecified amount of once through cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report	N/A Report mgd		1/day	24 hour. total
pH	N/A Report	N/A Report	Between 6.5 su and 9.0 su	3/week	grab
Temp.	N/A Report	N/A Report C	Units: degrees Celsius	1/day	24 hour maximum
TRC	N/A N/A	N/A 0.200000 mg/l		1/day	grab

Limitations/Monitoring Basis:
Water temperature and flow monitoring requirements are based on the State's policy for water quality evaluation. A thermal discharge limitation is the result of a thermal water quality variance. The thermal discharge limitation is 5990 x 10^6 BTU/hr, monitoring/day. Total residual chlorine (TRC) is a BAT limitation (40 CFR Part 423.13). This outfall's number is designated as Outfall 003 only when chlorination of the wastewater lasts 2 hours or less. If chlorination during any particular day exceeds 2 hours, the Outfall number changes to Outfall 093. The TRC daily maximum limit when operating as Outfall 093 is .038 mg/l.

Facility Name: Ohio Valley Electric Corp. | Permit Number: OH0005282

Facility Description: Generates electricity from coal fired plant | SIC Code: 4911

Outfall: 005A | Receiving Water: Kyger Creek | Treatment: Neut, Sed

Amount/Components:
15.5 mgd of fly ash sluice water, and misc. low volume wastewater, including coal storage area runoff.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
As (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Be (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Cd (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Cr (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Cu (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hour total
Hg (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab
NH3	N/A Report mg/l	N/A Report mg/l		1/day	grab
Ni (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
O&G	880.000000 kg/d 15.000000 mg/l	1173.000000 kg/d 20.000000 mg/l		1/month	grab
Pb (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	3/week	grab
Tl (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
TSS	1760.000000 kg/d 30.000000 mg/l	5867.000000 kg/d 100.000000 mg/l		3/week	grab
Zn (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab

Limitations/Monitoring Basis:
Outfall 005A was created for abstracting purposes. Outfall 005A limitations are effective for the first 3 years from the permit effective date. Tl, NH3, As, Cd, Cu, Pb, Zn, and Hg monitoring requirements are based on calculated WLAs and the State Surface Water Toxic Strategy. Be monitoring is based on the existing permit. Limits are water quality based. Loading limitations were calculated using a flow of 15.5 MGD.

Outfall: 005B | Receiving Water: Kyger Creek | Treatment: Neut, Sed

Amount/Components:
15.5 mgd of fly ash sluice water, and misc. low volume wastewater, including coal storage area runoff.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
As (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab

Be (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Cd (TR)	0.410000 kg/d 7.000000 ug/l	0.650000 kg/d 11.000000 ug/l		1/week	grab
Cr (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Cu (TR)	N/A Report ug/l	N/A 37.000000 ug/l		1/week	grab
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hour total
Hg (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab
NH3	Report kg/d Report mg/l	763.000000 kg/d 13.000000 mg/l		1/day	grab
Ni (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
O&G	880.000000 kg/d 15.000000 mg/l	1173.000000 kg/d 20.000000 mg/l		1/month	grab
Pb (TR)	1.640000 kg/d 28.000000 ug/l	15.500000 kg/d 264.000000 ug/l		1/week	grab
pH	N/A Report	N/A Report	Between 6.5 su and 9 .0 su	3/week	grab
Tl (TR)	N/A Report ug/l	N/A Report ug/l		1/week	grab
TSS	1760.000000 kg/d 30.000000 mg/l	5867.000000 kg/d 100.000000 mg/l		3/week	grab
Zn (TR)	Report kg/d Report ug/l	17.400000 kg/d 297.000000 ug/l		1/week	grab

Limitations/Monitoring Basis:
Outfall 005B was created for abstracting purposes. Outfall 005B limitations become effective after 3 years from the permit effective date. TSS and O&G are based on BPT (40 CFR Part 423.12). Nitrogen-ammonia, arsenic, cadmium, lead, zinc, and mercury are based on calculated WLAs. Monitoring is based on the existing permit. Copper, thallium, and pH are water quality based. Flow is based on State policy. Loading limitations were calculated using a flow rate of 15.5 MGD.

Outfall: 006A | Receiving Water: Ohio River | Treatment: AS, Dis

Amount/Components:
.083 mgd of sanitary wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
CBOD5	0.790000 kg/d 25.000000 mg/l	1.260000 kg/d 40.000000 mg/l		1/2 weeks	grab
Color	N/A N/A	N/A Report S	See below	1/day	Observation
Cu (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab
DO	N/A Report mg/l	N/A Report mg/l		1/2 weeks	grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	1/Month	grab

Facility Name: Ohio Valley Electric Corp. | Permit Number: OH0005282

Facility Description: Generates electricity from coal fired plant | SIC Code: 4911

Flow	N/A Report mgd	N/A Report mgd		1/day	24 hour total
NH3	Report kg/d Report mg/l	Report kg/d Report mg/l		1/2 weeks	grab
Nonfilterable residue (T)	0.940000 kg/d 30.000000 mg/l	1.410000 kg/d 45.000000 mg/l		1/2 weeks	grab
Other	N/A N/A	N/A Report S	Odor; see below	1/day	Observation
pH	N/A Report	N/A Report	Between 6.5 su and 9.0 su	1/month	grab
TRC	0.016000 kg/d 0.500000 mg/l	0.047000 kg/d 1.500000 mg/l		1/2 weeks	grab
Turbidity	N/A N/A	N/A Report S	See below	1/day	Observation
Zn (TR)	N/A Report ug/l	Report Report ug/l		1/quarter	grab

Limitations/Monitoring Basis:
Outfall 006A was created for abstracting purposes. Outfall 006A limitations are effective for 12 months from the effective date of the period. Color, odor, and turbidity are reported in severity (s) units defined in the permit. During the summer only, the permittee is required to monitor for E. coli 1/month using grab samples. The limit shown above for FC applies during the summer (May 1- Oct. 31) The winter (Nov. 1 - April 30) FC limit is 1000/100 ml monthly average and 2000/100 ml daily maximum. The FC limits are based on State WQSs. The loading limitations were calculated using a flow of 8300 gpd. The remaining limits and monitoring conditions for Outfall 006 follow State policy for sanitary discharges from industrial facilities. Monitoring for Zn and Cu was based on their detection in analysis, and the need to collect data on their presence in the discharge.

Outfall: 006B | Receiving Water: Ohio River | Treatment: AS, Dis

Amount/Components:
.083 mgd of sanitary wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
CBOD5	0.790000 kg/d 25.000000 mg/l	1.260000 kg/d 40.000000 mg/l		1/2 weeks	grab
Color	N/A N/A	N/A Report S	See below	1/day	Observation
Cu (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab
DO	N/A Report mg/l	N/A Report mg/l		1/2 weeks	grab
FC	N/A 200.000000	N/A 400.000000	Units #/100 ml	1/Month	grab
Flow	N/A Report mgd	N/A Report mgd		Daily	24 hour total
NH3	N/A Report mg/l	N/A Report mg/l		1/2 weeks	grab
Nonfilterable residue (T)	0.940000 kg/d 30.000000 mg/l	1.410000 kg/d 45.000000 mg/l		1/2 weeks	grab
pH	N/A Report	N/A Report	Between 6.5 SU and 9.0 SU	1/month	grab
TRC	N/A kg/d N/A mg/l	0.016000 kg/d 0.500000 mg/l		1/2 weeks	grab

Facility Name: Ohio Valley Electric Corp. | Permit Number: OH0005282

Facility Description: Generates electricity from coal fired plant | SIC Code: 4911

Turbidity	N/A N/A	N/A Report S	See below	1/day	Observation
Zn (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab

Limitations/Monitoring Basis:
Outfall 006B was created for abstracting purposes. Outfall 006B limitations are effective beginning 12 months from the permit effective date until the expiration. Color, odor, and turbidity are reported in descriptive severity (S) units defined in the permit. See basis for Outfall 006A.

Outfall: 007 | Receiving Water: Ohio River | Treatment: AS, Dis, DeCl

Amount/Components:
.043 mgd of sanitary wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
CBOD5	0.407000 kg/d 25.000000 mg/l	0.651000 kg/d 40.000000 mg/l		1/2 weeks	grab
Color	N/A N/A	N/A Report S	See below	1/day	Observation
Cu (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab
DO	N/A Report mg/l	N/A Report mg/l		1/2 weeks	grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	1/Month	grab
Flow	N/A Report mgd	N/A Report mgd		Daily	24 hour total
NH3	N/A Report mg/l	N/A Report mg/l		1/2 weeks	grab
Nonfilterable residue (T)	0.490000 kg/d 30.000000 mg/l	0.730000 kg/d 45.000000 mg/l		1/2 weeks	grab
pH	N/A Report	N/A Report	Between 6.5 SU and 9.0 SU	1/month	grab
TRC	N/A kg/d N/A mg/l	0.008100 kg/d 0.500000 mg/l		1/2 weeks	grab
Turbidity	N/A Report S	N/A Report S	See below	1/day	Observation
Zn (TR)	N/A Report ug/l	N/A Report ug/l		1/quarter	grab

Limitations/Monitoring Basis:
The limit shown above for FC applies during the summer (May 1-Oct 31). The winter (Nov 1-Apr 30) FC limit is 1000/100 ml monthly average and 2000/100 ml daily maximum. The loading limitations were calculated using a flow of 4300 gpd. See the limitations basis discussion for Outfall 006A.

Special Conditions Basis:
Special conditions include a compliance schedule to have treatment and controls installed. Intake monitoring 1/quarter is required at a specified station. The grab samples are to be analyzed for the total recoverable form of As, Tl, Be, Ni, Zn, Cd, Pb, Cu, and Hg. After 36 months, samples for Cu are to be analyzed 1/week. The permit contains a compliance schedule for submitting a permit-to-install application and constructing treatment and controls needed to meet the final effluent limitations for Outfalls 001, 002, 005, and006. The permit contains a reopener based on the promulgation of applicable standards or regulations containing more stringent limits or controlling pollutants not limited in the permit. The permittee is required to obtain written permission before using cooling or boiler water treatment additives that are discharged. Discharge of PCBs is prohibited. The permit lists 4 storm water runoff outfalls. Other storm water discharges must be described in a 2 F application to the State EPA. The permit maybe reopened based on state and Federal storm water program requirements. Procedures are provided for the treatment of chemical metal cleaning wastewater, including sampling and reporting.

Facility Name: Ohio Valley Electric Corp.		Permit Number: OH0005282
Facility Description: Generates electricity from coal fired plant		SIC Code: 4911
Effective Date: 11/01/92	Expiration Date: 04/01/97	Abstract Date: 06/18/93

Facility Name: Armco Steel Company, L.P. | Permit Number: OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | SIC Code: 3370

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	√	√	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	√	√	-	√	√	-

Abstract Information:
Partial; Outfalls 001, 002, 003 and 004 (A,B,C for abstracting), 005, 011, 015, 613, 614, 631, 641, 642; outfall 002C represents 1015.

Outfall: 001 | Receiving Water: Great Miami River | Treatment: Not specified

Amount/Components:
2.13 MGD non contact cooling water process wastewater and storm water runoff.

	Limitations			Monitoring Requirements	
Parameter	Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report mgd		1/day	calculated
Nonfilterable residue (T)	1364.000000 kg/d N/A	3409.000000 kg/d N/A		1/week	Calculated
O&G	136.000000 kg/d N/A	409.000000 kg/d N/A		1/week	calculated
Pb (T)	4.800000 kg/d N/A	14.560000 kg/d N/A		1/week	calculated
Zn (T)	7.340000 kg/d N/A	20.550000 kg/d N/A		1/week	calculated

Limitations/Monitoring Basis:
Outfall 001 represents the sum of the discharges from Outfalls 613 and 614. Monitoring for flow is based on State EPA policy. Total non-filterable residue and lead limitations are based on BPJ. Oil and grease limits are based on water quality standards. Zinc limits are is based on calculated WLAs. "Calculatec" sample type refers to the sum of the quantities measured at Outfalls 613 and 614. The fact sheet and the permit have discrepancies.

Outfall: 002A | Receiving Water: Dicks Creek | Treatment: Not specified

Amount/Components:
Unspecified amount of non contact cooling water from by products of Coke Plant, non contact river water and well water, and storm runoff.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A Report	N/A N/A	See below	1/month	composite
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
As (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Cd (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Chronic WET	N/A Report	N/A N/A	See below	1/quarter	composite
CN (free)	N/A N/A	N/A 0.046000 mg/l		2/week	grab
Fl	N/A Report mg/l	N/A Report mg/l	Fluoride	1/month	24 hr. composite

Facility Name: Armco Steel Company, L.P. | **Permit Number:** OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | **SIC Code:** 3370

Flow	N/A N/A	N/A Report mgd		1/Day	24 hr. total
NH3	N/A Report mg/l	N/A Report mg/l		2/week	24 hr. composite
Nonfilterable residue (T)	N/A Report mg/l	N/A Report mg/l		2/week	24 hr composite
O&G	N/A Report mg/l	N/A Report mg/l		2/week	grab
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9 .0 SU	1/week	grab

Limitations/Monitoring Basis:
Outfall 002(A) was created for abstracting purposes. The requirements for 002(A) apply for 36 months, beginning from the effective date of the permit. Limits for non-filterable residue are based on BPJ. Oil and grease and pH are based on water quality standards. Nitrogen (ammonia), cyanide, arsenic, cadmium, silver are based on calculated WLAs (WQBELs). Fluoride is based on BPJ. Flow is based on standard State EPA policy. WET (chronic and acute) monitoring requirements and limitations are water quality based effluent limitations. Chronic toxicity and acute toxicity monitoring requirements in the permit stipulate that two species must be used (Ceriodaphnia and Pimephales promelas).

Outfall: 002B | **Receiving Water:** Dicks Creek | **Treatment:** Not specified

Amount/Components:
Unspecified amount of non contact cooling water from by-products of Coke Plant, non-contact river water and well water, storm runoff.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A Report	N/A N/A	See below	1/month	composite
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
As (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Cd (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Chronic WET	N/A Report	N/A N/A	See below	1/quarter	composite
CN (free)	N/A N/A	N/A 0.046000 mg/l		2/week	grab
Fl	N/A Report mg/l	N/A Report mg/l		1/month	24 hr. composite
Flow	N/A N/A	N/A Report mgd		1/day	24 hr. total
NH3	N/A N/A	N/A 11.800000 mg/l	Summer	2/week	24 hr. composite
Nonfilterable residue (T)	N/A Report mg/l	N/A Report mg/l		2/week	24 hr composite
O&G	N/A N/A	N/A 10.000000 mg/l		2/week	grab
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9 .0 SU	1/week	grab

Limitations/Monitoring Basis:
Outfalls 002(C) was created for abstracting purposes.The requirements for Outfall 002(C) become effective on the 53rd month and last until the expiration of the permit.Limits for non-filterable residue are based on BPJ. Oil and grease and pH are based on water quality standards. Nitrogen (ammonia), cyanide, arsenic, cadmium, silver are based

Facility Name: Armco Steel Company, L.P. | Permit Number: OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | SIC Code: 3370

on calculated WLAs (WQBELs). Fluoride is based on BPJ. Flow is based on standard State EPA policy concerning evaluations. WET (chronic and acute) monitoring requirements and limitations are water quality based effluent limitations.

Outfall: 002C | Receiving Water: Dicks Creek | Treatment: None

Amount/Components:
Non-contact cooling water from by-products of Coke Plant, non- contact river water and well water, storm runoff.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A 1.000000 TUa	2 species	1/month	composite
Ag (T)	Report kg/d Report ug/l	Report kg/d Report ug/l		1/week	24 hr. composite
As (T)	Report kg/d Report ug/l	Report kg/d Report ug/l		1/week	24 hr. composite
Cd (T)	Report kg/d Report ug/l	Report kg/d Report ug/l		1/week	24 hr. composite
Chronic WET	N/A N/A	N/A 1.000000 TUc	2 species	1/quarter	composite
CN (free)	N/A N/A	N/A 0.046000 mg/l		2/week	grab
Fl	Report kg/d Report mg/l	Report kg/d Report mg/l		1/month	24 hr. composite
Flow	N/A N/A	N/A Report mgd		Daily	24 hr. total
NH3	N/A N/A	N/A 11.800000 mg/l	Summer	2/week	24 hr. composite
Nonfilterable residue (T)	Report kg/d Report mg/l	Report kg/d Report mg/l		2/week	24 hr composite
O&G	N/A N/A	N/A 10.000000 mg/l		2/week	grab
pH	N/A N/A	N/A Report SU	range 6.5 to 9.0	1/week	grab

Limitations/Monitoring Basis:
Outfalls 002(A), 002(B), and 002(C) are the same outfalls. The requirements for 002(A) apply for 36 months, beginning from the effective date of the permit. Requirements for 002(B) become effective 36 monthsfrom the effective date and last until the 53rd month. The requirements for Outfall 002(C) become effective on the 53rd month and last until the expiration of the permit. The "A,B,C" designations have been given inthis abstract solely to illustrate the varying permit limits over the life of the permit (i.e., in reality only one outfall exists).Limits for non-filterable residue are based on BPJ. Oil and grease and pH are based on water quality standards. Nitrogen (ammonia), cyanide, arsenic, cadmium, silver are based on calculated WLAs (WQBELs). Fluorideis based on BPJ. Flow is based on standard State EPA policy concerning evaluations. WET (chronic and acute) monitoring requirements and limitations are water quality based effluent limitations.

Outfall: 003A | Receiving Water: Dick's Creek | Treatment: Not specified

Amount/Components:
0.47 MGD Basic Oxygen Furnace (BOF)clarification system, cooling tower blowdown, storm runoff.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite

Facility Name: Armco Steel Company, L.P.					Permit Number: OH0009997
Facility Description: Produces flat rolled steel and intermediate products of pig iron.					SIC Code: 3370
As (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite
Cd (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite
Chronic WET	N/A Report TUc	N/A N/A		1/quarter	Composite
CN (free)	N/A N/A	N/A N/A			
Cu (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite
Fe (T)	N/A Report ug/l	N/A Report ug/l		1/month	24 hr composite
Fl	N/A Report ug/l	N/A Report ug/l		1/month	24 hr composite
Flow	N/A N/A	N/A Report mgd		1/day	24 hr. total
Mn (T)	N/A Report ug/l	N/A Report ug/l		1/month	24 hr composite
NH3	N/A Report ug/l	N/A Report ug/l		2/week	24 hr composite
Nonfilterable residue (T)	N/A Report mg/l	N/A Report mg/l		2/week	24 hr. composite
O&G	N/A Report ug/l	N/A Report ug/l		2/week	Grab
PAHs	N/A N/A	N/A Report ug/l	See below	1/quarter	Grab
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9.0 SU	1/week	Grab
Phenols	N/A N/A	N/A Report ug/l		1/month	Grab
Zn (T)	N/A N/A	N/A Report ug/l		1/month	Grab

Limitations/Monitoring Basis:
Outfall 003A was created for abstracting purposes. Outfall 003A's limitations monitoring requirements apply for 36 months beginning fromthe effective date of the permit. Chronic toxicity testing requires the use of two species (Ceriodaphnia and Pimephales promelas). Iron, phenolics (4AAP), manganese, non-filterable residue, fluoride, and PAHs requirements are based on BPJ. PAHs are to be monitored during storm flow and represent a sum of chemicals listed in the permit. Oil and grease and pH are based on WQS. Nitrogen ammonia have summer and winter requirements based on calculated WLAs. Winter requirements (30 day avg are 3.5 mg/l or 6.2 kg/day). Cyanide (free), arsenic, cadmium, copper, lead, silver, zinc, chronic toxicity, are based on WLAs.

Outfall: 003B | Receiving Water: Dick's Creek | Treatment: Not specified

Amount/Components:
0.47 MGD Basic Oxygen Furnace (BOF)clarification system, cooling tower blowdown, storm runoff.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite
As (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite

Facility Name: Armco Steel Company, L.P. | Permit Number: OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | SIC Code: 3370

Cd (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite
CN (free)	N/A N/A	N/A N/A			
Cu (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite
Fe (T)	N/A Report ug/l	N/A Report ug/l		1/month	24 hr composite
Fl	N/A Report ug/l	N/A Report ug/l		1/month	24 hr composite
Flow	N/A N/A	N/A Report mgd		1/day	24 hr. total
Mn (T)	N/A Report ug/l	N/A Report ug/l		1/month	24 hr composite
NH3	N/A Report ug/l	N/A Report ug/l		2/week	24 hr composite
Nonfilterable residue (T)	N/A Report mg/l	N/A Report mg/l		2/week	24 hr. composite
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9.0 SU	1/week	Grab
Zn (T)	N/A N/A	N/A N/A			

Limitations/Monitoring Basis:
Outfall 003B was created for abstracting purposes. The limists for outfall 003B apply beginning 36 months from the effective date through the expiration date. The O&G limit is a net concentration limit, the difference between the concentration measured ant Stations 803 and 003 should not exceed this limit. PAHs are to be monitored during storm flow and represent a sum of chemicals listed in the permit.

Outfall: 004A | Receiving Water: North Branch of Dicks Creek | Treatment: Not specified

Amount/Components:
2.11 MGD of blowdown from South Treatment Facility process wastewaters, non-contact (annealing) wastewaters, and storm water runoff.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	Not give
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite
As (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Cd (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	Not given
CN (free)	N/A Report mg/l	N/A 0.046000 mg/l		1/week	24 hr. composite
Cr (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Cu (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hr. total
NH3	N/A Report mg/l	N/A 11.800000 mg/l	Summer	2/week	24 hr. composite
O&G	N/A Report mg/l	N/A Report mg/l		2/week	grab
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9 .0 SU	2/week	grab
Zn (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Facility Name: Armco Steel Company, L.P. **Permit Number:** OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. **SIC Code:** 3370

Limitations/Monitoring Basis:
Outfall 004A was created for abstracting purposes. Outfall 004A requirements apply for 36 months beginning from the permit effective date. Toxicity testing is required for 1 year, following specified biomonitoring guidance, using 2 species. pH and oil and grease are based on WQS. Nirogen ammoniasummer (May 1-Oct 31) limitations shown. Winter (Nov 1-Apr 30) are 9.9 mg/l (daily max. concentration). Limits for nitrogen ammonia are basedon calculated WLAs. Chromium and lead are BPJ based, cyanide (free), arsenic, cadmium, copper, silver, zinc, and WET monitoring requirements are based on caluculated WLAs.

Outfall: 004B | **Receiving Water:** North Branch of Dicks Creek | **Treatment:** Not specified

Amount/Components:
2.11 MGD of blowdown from South Treatment Facility process wastewaters, non-contact (annealing) wastewaters, and storm water runoff.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/quarter	Not give
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr composite
As (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Cd (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Chronic WET	N/A N/A	N/A Report	See below	1/quarter	Not given
CN (free)	N/A Report mg/l	N/A 0.046000 mg/l		1/week	24 hr. composite
Cr (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Cu (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hr. total
NH3	N/A Report mg/l	N/A 11.800000 mg/l	Summer	2/week	24 hr. composite
O&G	N/A Report mg/l	N/A 10.000000 mg/l		2/week	grab
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Facility Name: Armco Steel Company, L.P. | Permit Number: OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | SIC Code: 3370

pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9 .0 SU	2/week	grab
Zn (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Limitations/Monitoring Basis:
Outfall 004B was created for abstracting purposes. Outfall 004B requirements apply beginning 36 months from the permit effective date until the expiration. See the limitations/monitoring basis for Outfall 004A. Nitrogen ammonia summer (May 1-Oct 31) limitations shown. Winter (Nov 1-Apr 30) requirements are 9.9 mg/l (daily max. concentration).

Outfall: 005 | Receiving Water: Dick's creek | Treatment: PC, Floc

Amount/Components:
1.93 MGD of process from hot strip mill, continuous caste, vacuum degassing, slab reheat furnaces, cold mill cooling tower blowdown, storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hr. total
Nonfilterable residue (T)	227.000000 kg/d N/A	682.000000 kg/d N/A		1/week	24 hr. composite
O&G	227.000000 kg/d N/A	227.000000 kg/d N/A		2/week	grab
Pb (T)	0.230000 kg/d 60.000000 ug/l	0.680000 kg/d 263.000000 ug/l		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9 .0 SU	2/week	grab
Zn (T)	0.450000 kg/d 135.000000 ug/l	1.360000 kg/d 399.000000 ug/l		1/week	24 hr. composite

Limitations/Monitoring Basis:
Non-filterable residue requirements is based on BPJ. Oil and grease requirements is based on BPT. Lead is based on the previous permit. Zinc is based on BAT. pH limits are based on WQSs.

Outfall: 011 | Receiving Water: North Branch of Dicks Creek | Treatment: Not specified

Amount/Components:
Unspecified amount of blowdown from South Treatment Facility, process and non-contact (annealing) wastewaters, and storm water runoff.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report TUa	See below	1/quarter	composite
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Cd (T)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Chronic WET	N/A N/A	N/A Report TUa		1/quarter	composite
CN (free)	0.270000 kg/d N/A	0.970000 kg/d N/A		1/week	grab
Cr+6 (DS)	N/A Report ug/l	N/A Report ug/l		1/month	grab

Facility Name: Armco Steel Company, L.P. | **Permit Number:** OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | **SIC Code:** 3370

Cu (T)	N/A Report ug/l	N/A Report ug/l		1/week	grab
Flow	N/A Report mgd	N/A Report mgd		1/day	24 hr. total
Nonfilterable residue (T)	N/A Report ug/l	N/A Report ug/l		1/week	grab
O&G	N/A N/A	N/A 10.000000 mg/l		1/week	grab
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/week	grab
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9.0 SU	2/week	grab
Zn (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Limitations/Monitoring Basis:
Acute and Chronic WET testing is to be conducted using two species, following guidance specified in the permit. The basis for the limitations and monitoring conditions at this outfall was not provided.

Outfall: 015 | **Receiving Water:** Dick's creek | **Treatment:** Not specified

Amount/Components:
Unspecified amount of treated process wastewater, ground and well water, non-contact cooling water, and surface runoff.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A Report TUa	N/A N/A	See below	1/month	composite
Ag (T)	Report kg/d Report ug/l	Report kg/d Report ug/l		1/week	24 hr. composite
Cd (T)	Report kg/d Report ug/l	Report kg/d Report ug/l		1/week	24 hr. composite
Chronic WET	N/A Report TUc	N/A N/A	See below	1/quarter	composite
CN (free)	N/A N/A	N/A 0.046000 mg/l		2/week	grab
Cr (T)	Report kg/d Report mg/l	Report kg/d Report mg/l		1/week	24 hr. composite
Cu (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Flow	N/A N/A	N/A Report mgd		1/day	24 hr. total
NH3	N/A N/A	N/A 11.800000 mg/l	summer	2/week	24 hr. composite
Nonfilterable residue (T)	Report kg/d Report mg/l	Report kg/d Report mg/l		1/week	24 hr composite
O&G	Report kg/d Report mg/l	Report kg/d Report mg/l		1/week	grab
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9.0 SU	1/week	grab

Facility Name: Armco Steel Company, L.P. | Permit Number: OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | SIC Code: 3370

Zn (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Limitations/Monitoring Basis:
Acute and chronic WET testing is to be conducted using two species, following guidance specified in the permit. The basis for the limitations and monitoring conditions at this outfall was not provided. Beginning 36 months after the permit effective date, a daily maximum limitation for O&G applies, 10 mg/l. At that time, a daily maximum limitation for free cyanide also applies, 0.046 mg/l.

Outfall: 613 | Receiving Water: Internal to Outfall 001 | Treatment: ChPt, Floc, Sed

Amount/Components:
1.04 MGD process wastewater from inonmaking and sintering.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
CN (T)	6.900000 mg/l N/A	13.700000 mg/l N/A		1/week	24 hr. composite
Flow	N/A N/A	N/A Report mgd		1/day	24 hr. total
NH3	205.000000 kg/d N/A	410.000000 kg/d N/A mg/l		1/week	24 hr. composite
Nonfilterable residue (T)	N/A Report mg/l	N/A Report mg/l		1/week	24 hr composite
O&G	N/A Report mg/l	N/A Report mg/l		1/week	grab
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9.0 SU	1/week	grab
Phenols	0.900000 ug/l N/A	1.800000 ug/l N/A		1/week	24 hr. composite
Zn (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Limitations/Monitoring Basis:
Nitrogen ammonia and cyanide and phenolics total requirements are based on previous permit, lead and zinc are based on BAT. TRC, pH, O&G, and non-filterable residue are based on BPT.

Outfall: 614 | Receiving Water: Internal to Outfall 001 | Treatment: Floc, PC

Amount/Components:
1.06 MGD of cold forming, acid pickling, alkaline cleaning, painting, hot coating, metal finishing etc..., non-contact cooling from air production.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
CN (T)	N/A Report mg/l	N/A Report mg/l		1/week	grab
Cr (T)	N/A Report mg/l	N/A Report mg/l		1/week	24 hr. composite
Cr+6	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Fe (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Facility Name: Armco Steel Company, L.P. | Permit Number: OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | SIC Code: 3370

Flow	N/A N/A	N/A Report mgd		1/day	24 hr. total
Naphthalene	N/A N/A	0.256000 kg/d N/A		1/year	24 hr. composite
Ni (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Nonfilterable residue (T)	N/A Report mg/l	N/A Report mg/l		1/week	24 hr composite
O&G	N/A Report mg/l	N/A Report mg/l		1/week	grab
Pb (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9.0 SU	1/week	grab
Tetrachloroethylene	N/A N/A	0.383000 kg/d N/A		1/year	24 hr. composite
TTOs	N/A N/A	1.740000 kg/d N/A	See below	1/month	Variable
Zn (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Limitations/Monitoring Basis:

Outfall: 631 | Receiving Water: Internal to Outfall 003 | Treatment: Floc, PC

Amount/Components:
Unspecified amount of process wastewater from steelmaking.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report mgd		Daily	24 hr. total
Nonfilterable residue (T)	341.000000 kg/d N/A mg/l	1023.000000 kg/d N/A mg/l		1/week	24 hr composite
Pb (T)	0.910000 kg/d N/A	2.740000 kg/d N/A		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	range 6.5 to 9.0	1/week	grab
Zn (T)	1.300000 kg/d N/A	3.890000 kg/d N/A		1/week	24 hr. composite

Limitations/Monitoring Basis:
Non-filterable residue and pH is based on BPT. Zinc and lead are limited by BAT.

Outfall: 641 | Receiving Water: Internal to outfall 004 | Treatment: Neut, Air, Floc, PC

Amount/Components:
1.8 MGD of wastewater from acid pickling and cold forming processes.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report mgd		1/week	24 hr. total

Facility Name: Armco Steel Company, L.P. | Permit Number: OH0009997

Facility Description: Produces flat rolled steel and intermediate products of pig iron. | SIC Code: 3370

Naphthalene	N/A N/A	0.723000 kg/d N/A		1/year	24 hr. composite
Nonfilterable residue (T)	561.000000 kg/d N/A	1240.000000 kg/d N/A		1/week	24 hr composite
O&G	187.000000 kg/d N/A mg/l	526.000000 kg/d N/A mg/l		1/week	grab
Pb (T)	1.140000 kg/d N/A	2.760000 kg/d N/A		1/week	24 hr. composite
pH	N/A N/A	N/A Report SU	Between 6.5 SU and 9.0 SU	1/week	grab
Tetrachloroethylene	N/A N/A	0.383000 kg/d N/A		1/year	24 hr. composite
Zn (T)	0.725000 kg/d N/A	2.180000 kg/d N/A		1/week	24 hr. composite

Limitations/Monitoring Basis:
Non-filterable residue, Oil and Grease, and pH are based on BPT. Chromium (+6), tetrachloroethylene, naphthalene limits are based on BAT, lead and zinc are based on previous permit.

Outfall: 642 | Receiving Water: Internal to Outfall 004 | Treatment: Air, Floc, PC

Amount/Components:
0.29 MGD of metal finishing process wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Ag (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite
Cr (T)	N/A 1710.000000 ug/l	N/A 2770.000000 ug/l		1/week	24 hr. composite
Flow	N/A N/A	N/A Report mgd		Daily	24 hr. total
Ni (T)	N/A 2380.000000 ug/l	N/A 3980.000000 ug/l		1/week	24 hr. composite
Nonfilterable residue (T)	N/A 31.000000 ug/l	N/A 60.000000 ug/l		1/week	24 hr composite
O&G	N/A 26.000000 ug/l	N/A 52.000000 ug/l		1/week	grab
pH	N/A N/A	N/A Report SU	range 6.5 to 9.0	1/week	grab
TTOs	N/A N/A	N/A 2130.000000 ug/l			
Zn (T)	N/A Report ug/l	N/A Report ug/l		1/week	24 hr. composite

Limitations/Monitoring Basis:
Non-filterable residue and oil and grease limits are based on BPT and previous permit. Chromium (T), nickel, TTOs, and zinc are based on BAT and previous permit. Silver is based on BPJ.

Special Conditions Basis:
After 1 year, the permit may be reopened to incorporate a WET limit, or a TRE may be required. A BMP plan is required, with elements specified by the permit. Compliance with the free cyanide limitations when the data are reported below the MDL is defined. The permittee has the options of monitoring for TTOs (listed in permit) or submitting monthly certifications in accordance with permit provisions. The permit contains additional upstream and downstream monitoring requirements.

Effective Date: 12/01/92 | Expiration Date: 06/01/97 | Abstract Date: 06/17/93

Facility Name: Muskogee Linerboard Mill | Permit Number: OK0041629

Facility Description: Manufacturer of natural and mottled white liner board | SIC Code: 2631

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	-	-	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	-	-

Abstract Information:
Complete; Outfalls 001 and 002.

Outfall: 001 | Receiving Water: Arkansas River | Treatment: Scr+floc+PG+AS

Amount/Components:
4.7 MGD of process water.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A N/A		1/month	24hr fw composite
BOD5	3696.000000 lb/d Report mg/l	6864.000000 lb/d Report mg/l		3/week	24hr fw composite
Cd (T)	Report lb/d Report lb/d	Report lb/d Report lb/d		1/2 weeks	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
NH3-N	25.000000 lb/d Report mg/l	50.000000 lb/d Report mg/l		3/week	24hr fw composite
PCBs (T)	0.024000 lb/d 0.960000 ug/l	0.048000 lb/d 1.930000 ug/l		1/2 weeks	24hr fw composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	continuous	record
TSS	4048.000000 lb/d Report mg/l	7744.000000 lb/d Report mg/l		3/week	24hr fw composite

Limitations/Monitoring Basis:
BOD5, TSS, and pH limits are ELG-based consistent with the NSPS for pulp and paper manufacturing (40 CFR, Part 430), the natural linerboard subcategory (Subpart E). The limitations were based on Subpart E exclusively because: (1) the facility was unable to estimate the production mix between natural and mottled white linerboard due to market demand volatility; (2) mottled white linerboard is not specifically addressed by ELGs but it is the permit writer's best judgement that NSPS for pulp and paper manufacturing (40 CFR, Part 430) deink subcategory (Subpart Q) and natural linerboard subcategory (Subpart E) are most applicable; and (3) the more stringent of these limits are those calculated solely based on Subpart E. The pH limits are expected to maintain water quality standards. PCB limits are BPJ-based by applying the same technology-based limits as imposed at a nearby pulp and paper mill; limits were deemed necessary due to the potential presence of PCB-containing inks. Cr (T) monitoring is required base on exceedances of WQ screening criteria; data will be gathered to determine WQ compliance and to evaluate the need for limits. NH3-N and BOD5 limits are set forth consistent with stream waste load allocation modelling and consistent with the proposed State WQ management plan pursuant to 40 CFR 122.44(d)(6). Acute WET monitoring is required because pollutants present in the effluent may cause toxicity in the receiving waters and WET is the most direct measure of potential toxicity. These conditions are set forth to prevent violations of CWA Section 102(a)(3) and to achieve State standards pursuant to 40 CFR 122.44(d)(1) and CWA Section 303. Acute WET testing is required in accordance with State policy. Acute WET testing must be conducted on specified dilutions in accordance with EPA guidance manual procedures; where toxicity is evident in 100% effluent, retesting must be conducted within 15 days. Retesting may be suspended after 3 consecutive 15 day tests. Forms are supplied in the permit for reporting toxicity test results. Monitoring requirements for all pollutants are based on the permit writer's judgement.

Facility Name: Muskogee Linerboard Mill | Permit Number: OK0041629

Facility Description: Manufacturer of natural and mottled white liner board | SIC Code: 2631

Outfall: 002 | Receiving Water: Unnamed trib. to Arkansas R. | Treatment: Not described.

Amount/Components:
0.76 MGD daily average of storm water runoff

Parameter	Limitations			Monitoring Requirements	
	Daily Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	Report lb/d Report mg/l	Report lb/d Report mg/l		1/day	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	estimate
O&G	N/A Report mg/l	N/A 15.000000 mg/l		1/day	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	in-situ
TOC	Report lb/d Report mg/l	Report lb/d 50.000000 mg/l		1/day	grab
TSS	Report lb/d Report mg/l	Report lb/d Report mg/l		1/day	grab

Limitations/Monitoring Basis:
TOC, O&G, and pH limitations are established "consistent with similar industrial storm water effluent limitations within the Region and are judged to represent BCT/BAT treatment". The pH limits are expected to maintain water quality standards. Monitoring requirements for BOD and TSS are established consistent with the State permit. Monitoring requirements for all pollutants are based on the permit writer's judgement.

Special Conditions Basis:
Where two consecutive Acute WET tests show toxicity, a proposal for the conduct of a TRE must be submitted within 30 days. The proposal must specify the date on which the TRE will be initiated and the approach and methodologies to be used. The permit contains reopener clauses based on wasteload allocation and monitoring results for cadmium.

Effective Date: 08/11/92 | Expiration Date: 08/10/97 | Abstract Date: 05/18/93

Facility Name: Reynolds Metals Co., Troutdale | Permit Number: OR0000060

Facility Description: Aluminum primary reduction plant | SIC Code: 3334

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	-	√	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	√	-	√	√

Abstract Information:
Complete: Outfalls 001 and 002.

Outfall: 001 | Receiving Water: Columbia River | Treatment: ChPt

Amount/Components:
2.23 MGD; Cooling water, storm water, sanitary wastes, boiler blowdown, and ESP scrubber water.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A N/A	Monitor 1 yr; see below	1/quarter	24hr composite
Al	9.180000 lb/d N/A	97.690000 lb/d N/A	Seas/net basis; see below	1/week	24hr composite
Benzo (a) pyrene	0.025000 lb/d N/A	0.054000 lb/d N/A		1/week	24hr composite
Chronic WET	N/A N/A	N/A N/A	Monitor 1 yr; see below	1/quarter	24hr composite
CN	0.900000 lb/d N/A	1.900000 lb/d N/A		3/week	24hr composite
Fl	102.230000 lb/d N/A	487.910000 lb/d N/A	Seas/net basis; see below	3/week	24hr composite
Flow	N/A N/A	N/A N/A		1/day	meter
Ni	0.420000 lb/d N/A	0.630000 lb/d N/A	Net basis; see below	1/week	24hr composite
O&G	N/A N/A	N/A N/A	Shall not exceed 10 mg/l	3/week	24hr composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	3/week	24hr composite
Sb	0.980000 lb/d N/A	2.210000 lb/d N/A	Net basis; see below	1/week	24hr composite
TSS	1134.000000 lb/d N/A	2268.000000 lb/d N/A		3/week	24hr composite

Limitations/Monitoring Basis:
Limits for TSS, benzo(a)pyrene, Sb, Ni, fluoride, and Al were based on ELGs for nonferrous metals manufacturing (40 CFR Part 421; Subpart B); TSS, benzo(a)pyrene, and fluoride limits are also consistent with the existing permit. Production data used for limits calculations were based on 5 year projections by the facility. An allowance was provided for additonal loadings of fluoride and Al due to seasonal (summer and winter) stormwater runoff. ELGs do not limit CN for the processes conducted by the facility. However, EPA's development document for this category provides CN limits for plant processes and these were used in developing effluent limits. The O&G and pH limits are the same as the previous permit; however, the bases for these limits were not provided. Because chemical specific monitoring cannot alone predict toxicity on a receiving water and because past data may not be adequate to determine long term effects, toxicity testing is required. Acute and chronic WET testing must be conducted in accordance with EPA guidance manual procedures; 1 of 2 species is selected by the State. In addition to the monitoring requirements listed above, monthly grab samples of fluoride, Sb, Ni and Al were also required forthe facility's intake water in order to calculate the net loading of these pollutants. The bases of the other monitoring requirements were not provided.

Facility Name: Reynolds Metals Co., Troutdale | Permit Number: OR0000060

Facility Description: Aluminum primary reduction plant | SIC Code: 3334

Outfall: 002 | Receiving Water: Internal to Outfall 001 | Treatment: BioF, Dis

Amount/Components:
0.035 MGD of sewage treatment plant effluent.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	25.000000 lb/d 30.000000 mg/l	50.000000 lb/d 45.000000 mg/l		2/month	grab
FC	N/A 200.000000	N/A N/A	Units: #/100ml	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	meter
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
TRC	N/A Report mg/l	N/A Report mg/l		1/day	grab
TSS	25.000000 lb/d 30.000000 mg/l	50.000000 lb/d 45.000000 mg/l		2/month	grab

Limitations/Monitoring Basis:
The limits for outfall 002 were carried over form the previous permit. The original bases of these limits were not provided. The monitoring frequencies for BOD and TSS were increased to ensure that monthly avg. could be differentiated from daily max. The basis of the remaining monitoring conditions was not described.

Special Conditions Basis:
The permit contains several special conditions. The permit specifies that a spill plan be in force at all times. The permit also requires that an appropriately qualified and informed individual be designated to handle wastewater treatment. Where WET testing confirms toxicity, the permit requires development of a plan to eliminate toxicity, submission of the plan to the State for approval, and implementation of the plan upon approval. The performance of a mixing zone study is also set forth. Within fifteen (15) months of permit issuance, a report containing the findings of the WET testing and the mixing zone study must be submitted to the State. Special monitoring requirements described at Outfall 001 may also be considered special conditions. The basis of these conditions were not described.

Effective Date: 04/19/91 | Expiration Date: 03/31/96 | Abstract Date: 04/15/93

Facility Name: Tillamook County Creamery Assn | **Permit Number:** OR0000141

Facility Description: Dairy products production, visitor center, delicatessen | **SIC Code:** 2026

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	√	-	√	-

Abstract Information:
Complete: Outfalls 001, 001a, and 002

Outfall: 001 | **Receiving Water:** Wilson River | **Treatment:** PC, AS, Dis

Amount/Components:
0.25 MGD of treated process and sanitary wastewater, blowdown from whey towers, and steam condensate.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	88.000000 lb/d N/A	219.000000 lb/d N/A	See below	2/week	composite
Chronic WET	N/A N/A	N/A N/A	See below	Variable	See below
FC	N/A N/A	N/A N/A	See below	2/week	grab
Flow	N/A N/A	N/A N/A		1/day	read
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
TRC	N/A 0.170000 mg/l	N/A 0.300000 mg/l	See below	3/day	grab
TSS	131.000000 lb/d N/A	341.000000 lb/d N/A	See below	2/week	composite

Limitations/Monitoring Basis:
BOD and TSS limits are ELG based (40 CFR Part 405) using 1985 production data despite production having increased. The pH and fecal coliform limits are WQ-based and are consistent with State numerical WQ standards. For fecal coliform, these limits are: "Geometric mean of all samples in calendar month shall not exceed 200. Not over 10% of all samples for calendar month shall exceed 400." TRC limits are WQ-based using numerical criteria and State-specific mixing zone standards and were developed using the ambient-induced mixing model from EPA's TSD. In addition to the monitoring requirements noted above, the permit also requires monitoring for influentBOD, TSS, and pH at the same frequencies as effluent monitoring. Monitoring is also required for the amount of Cl used on a daily basis. Chronic WET testing is required once during 1992 and again not more than six months prior to applying for permit renewal. Testing is to be conducted in accordance with specific EPA guidance.

Outfall: 001A | **Receiving Water:** Internal Outfall via 001 | **Treatment:** Not discussed.

Amount/Components:
0.01 MGD maximum allowable from the whey cooling tower blowdown.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A N/A	Shall not exceed 0.01 MGD	1/week	estimate
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
Temp.	N/A N/A	N/A N/A	Shall not exceed 90F	1/week	grab

Limitations/Monitoring Basis:
Temp. limits are carried over from the previous permit and their basis is not known; however, the limits were determined to be protective of the State's numerical WQS. The pH limits are established to protect the

Facility Name: Tillamook County Creamery Assn | Permit Number: OR0000141

Facility Description: Dairy products production, visitor center, delicatessen | SIC Code: 2026

State'snumerical WQS. No basis of the flow limitation was provided. No basis for the monitoring requirements was provided.

Outfall: 002 | Receiving Water: Boquist Slough | Treatment: Not discussed.

Amount/Components:
0.025 MGD max. allowable from the refrigeration system cooling tower blowdown.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A N/A	Shall not exceed .02 5 MGD	1/week	estimate
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A N/A	N/A N/A	Shall not exceed 90F	1/week	grab

Limitations/Monitoring Basis:
Temp. limits are carried over from the previous permit and their basis is not known; however, the limits were determined to be protective of the State's numerical WQS. The pH limits are established to protect the State's numerical WQS. No basis of the flow limitation was provided. No basis for the monitoring requirements was provided.

Special Conditions Basis:
The permit includes eleven (11) special conditions covering BMPs for proper operation and maintenance of the facilities treatment facilities. This included a specific BMP for spill prevention and response and requirements for sludge disposal in accordance with a sludge management plan. In addition to the chronic WET testing outlined previously, a plan to eliminate toxicity must be developed, submitted for State approval, and implemented if the WET testing confirms toxicity. Certain monitoring requirements described in the permit may also be considered special conditions. These specific monitoring requirements are described above.

Effective Date: 06/24/92 | Expiration Date: 06/30/97 | Abstract Date: 04/09/93

Facility Name: Weyerhaeuser Company | Permit Number: OR0000515

Facility Description: Unbleached Kraft linerboard mill | SIC Code: 2611

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	√	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	√	√	-	√	√

Abstract Information:
Complete: Outfalls 001,002, and 003.

Outfall: 001 | Receiving Water: McKenzie River | Treatment: PC+AL+Def

Amount/Components:
15.5 MGD of process wastewater from pulp mill, non-contact process waters, and log pond effluent.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	3000.000000 lb/d N/A	4500.000000 lb/d N/A	Seasonal; see below	3/week	24hr composite
Chronic WET	N/A N/A	N/A N/A		1/quarter	See below
Color	N/A N/A	N/A N/A		3/week	grab
Flow	N/A N/A	N/A N/A		continuous	record
P (T)	N/A N/A	N/A N/A		1/month	24hr composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Temp.	N/A N/A	N/A 100.000000 F		3/week	grab
TSS	10000.000000 lb/d N/A	20000.000000 lb/d N/A	Seasonal; see below	3/week	24hr composite
Turbidity	N/A N/A	N/A N/A	See below	3/week	grab

Limitations/Monitoring Basis:
BOD5 and TSS limits are seasonal and carried over form the previous permit. Limits shown above are effective from Jun. 1 to Oct. 31 (summer); winter limits effective from Nov. 1 to May 31 are 4,000 lb/d and 6,000 lb/d BOD5, and 11,960 lb/d and 28,000 lb/d TSS, monthly avg. and daily max. respectively. Although their basis was not provided, these limits were compared to the applicable ELG-based limits (40 CFR Part 430), and the State's numerical WQS. In both cases the existing limits were more stringent and were retained. The pH, temp. and turbidity limits are WQ-based and are consistent with State numerical WQS. The temp. limit is based on the total assimilative capacity of the river rather than just the mixing zone's capacity. This temp. limit is considered interim until a planned diffuser is installed and the permit is modified to reflect the new mixing zone. Monitoring requirements were also included for P (T) in order to determine discharge contributions. P (T) limits were not imposed because the discharge was expected to increase ambient levels by 0.01 mg/l. Turbidity must not measure more than 10% over background level. There is also a requirement for daily readings of the McKenzie River guaging station, and 3/week grab sampling of temp. and turbidity from the McKenzie River. There is also a requirement to report "pulp produced (Kraft) - average air-dry tons/day for reporting period for both chips and recycled cardboard" and "paper produced average air-dry tons/day for reporting period". Chronic WET testing isrequired quarterly and must be conducted in accordance with specific EPA guidance. Three species are required and a dual end-point test must be performed. Testing may be reduced after 2 years.

Facility Name: Weyerhaeuser Company | Permit Number: OR0000515

Facility Description: Unbleached Kraft linerboard mill | SIC Code: 2611

Outfall: 002 | Receiving Water: McKenzie River | Treatment: HT

Amount/Components:
20 MGD max. of non-contact cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	15.000000 MGD N/A	25.000000 MGD N/A	See below	continuous	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	3/week	grab
Temp.	N/A 100.000000 F	N/A 115.000000 F		3/week	grab

Limitations/Monitoring Basis:
Flow limit applies to total of Outfalls 002 and 003. Temperature limits are carried over form the previous permit and their basis was not provided; however, the limits were determined to be protective of the State's numerical WQS. The pH upper limit was adjusted to account for algal blooms. The pH limits were established to protect the State's numerical WQS. The basis of the flow limitation was not described. No discussion of the bases for the monitoring requirements was provided.

Outfall: 003 | Receiving Water: City storm water system | Treatment: HT

Amount/Components:
5 MGD max. of non-contact cooling water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	3.000000 MGD N/A	5.000000 MGD N/A		1/day	estimate
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	3/week	grab
Temp.	N/A N/A	N/A N/A		3/week	grab

Limitations/Monitoring Basis:
Temperature limits are carried over from the previous permit and their basis was not provided; however, the limits were determined to be protective of the State's numerical WQS. The pH limits are established to protect the State's numerical WQS. The basis of the flow limitation was not described. No discussion of the basis for the monitoring requirements was provided.

Special Conditions Basis:
The permit includes a number of special conditions which are incorporated in both the compliance schedule section and the special conditions section. The compliance schedules require: (1) Installation of a diffuser at Outfall 001 within one year of permit issuance, and the conduct of mixing dilution zone study 15 months after diffuser installation. This diffuser is intended to minimize impacts on fish migration and the requirements are consistent with a facility proposal. (2) Within two years of permit issuance, a benthic survey of the secondary channel of the McKenzie river must be conducted to assess the impact of Outfall 002 on the stream. This study must also evaluate the mixing zone of Outfall 002. If the survey indicates that there is a significant impact on the benthic community, or if WQS are violated, the permittee must submit a plan to address the impacts andthe State may modify the permit requirements. (3) Within six months of permit issuance, a plan and schedule must be submitted to prevent the discharge from Outfall 003 to the secondary channel of the McKenzie River. (4)Within one year a plan to properly handle wastewater from certain specified processes must be developed. An additional monitoring point may be required if treatment is provided to these wastestreams. (5) In addition to the Chronic WET testing outlined in the permit compliance schedule section, a plan to eliminate toxicity must be developed, submitted for State approval, and implemented if the WET testing confirms toxicity. The State mayalso reopen the permit to include WET limits. (6) Specific groundwater monitoring requirements are included to assess the effects of seepage from the treatment ponds. The Special Conditions section of the permit requires: (a) all sanitary wastes must be discharged to the City of Springfield sanitary sewer; (b) appropriate spill prevention and response; (c) proper sludge handling; and (d) the submission of plans and specifications. In addition, certain monitoring requirements described previously may also be considered special conditions. Other than described above, the basis of these conditions were not provided.

Effective Date: N/A | Expiration Date: N/A | Abstract Date: 04/16/93

Facility Name: Chevron Chemical Company | **Permit Number:** OR0001635

Facility Description: Urea, ammonia, and ammonium nitrate fertilizer manufacturer | **SIC Code:** 2873

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	=	√	√	=	=	√	=	=	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	=	=	√	=	√	=	√	√

Abstract Information:
Complete, Outfall 001.

Outfall: 001 | **Receiving Water:** Columbia River | **Treatment:** API

Amount/Components:
25 MGD of cooling water, boiler blowdown, filter backwash, and storm runoff.

Parameter	Limitations: Average	Limitations: Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chronic WET	N/A	N/A		4/year	See below
Flow	N/A	N/A	Shall not exceed 25 MGD	1/day	meas.
NH3-N	N/A 0.600000 mg/l	N/A 4.000000 mg/l	Net basis	2/week	24hr composite
NO3-N	N/A 1.000000 mg/l	N/A 4.000000 mg/l	Net basis		
O&G	N/A	N/A	Shall not exceed 10 mg/l	1/week	grab
Organic-N	N/A 1.000000 mg/l	N/A 4.000000 mg/l	Net basis	2/week	24hr composite
pH	N/A	N/A	Between 6.0 su and 9 .0 su	1/day	record
SS	N/A	N/A	See below	1/week	grab
Temp.	N/A	N/A	See below	1/day	meas.

Limitations/Monitoring Basis:
This facility is covered by ELGs (40 CFR Part 418); however, since no process wastestreams are discharged, all permit limits are WQ-based or BPJ-based. NH3-N limits are set to reduce the potential for toxicity within themixing zone; the limit is set based on an agreement between the State and the facility that the limit is achievable. The NO3-N limits are based on WQ/Drinking water standards and past performance. The Organic-N limits are based on past performance. The daily max. limits for NH3-N and organic-N are also consistent with the past permit. The pH and temp. limits were developed to ensure compliance with State WQS. The SS limits were based on accepted treatment performance levels; the SS limit is consistent with those set forth in a general permit covering discharges of filter backwash water. This limit has been used by the State to regulate similar discharges and is believed to be protective of water quality. The O&G limit is incorporated from the past permit because it is more stringent than the limits set in a general permit for facilities with oil products. Sampling for SS is required immediately after the filter backwash unit in order to prevent the achievement of compliance by dilution with cooling water; this requirement is consistent with State policy specifying that the highest andbest practicable treatment be provided. A compliance schedule is provided for SS. The limits for temp., NH3-N, NO3-N, and organic-N are on a net basis. Temp. must not exceed a 30 degrees F increase over intake. To determine the net, monitoring of the intake is required at the same frequency as effluent, and the intake and net values must be reported for these parameters. Chronic WET testing is required because of potential for toxicity. Testing must be conducted 4/year (Jul, Aug, Sept, Oct), and must be conducted on 2 specified organisms in accordance with specific EPA guidance. After 2 years, testing may be discontinued.

Special Conditions Basis:
The permit includes a number of special conditions which are incorporated in both the compliance schedule section and the special conditions section. Department policy requires that filter backwash be settled out of wastewater streams prior to discharge; thus a compliance schedule to construct facilities by 10/31/93 for treating filter backwash water. In addition to the chronic WET testing outlined previously, a plan to eliminate toxicity must be developed, submitted for State approval, and implemented if the WET testing confirms toxicity. The State may also require a mixing zone study to be performed in accordance with dates specified in the permit and may reopen the permit to include WET limits. The Special Conditions seciton of the permit requires: (1) Total discharge shall be

Facility Name: Chevron Chemical Company	Permit Number: OR0001635
Facility Description: Urea, ammonia, and ammonium nitrate fertilizer manufacturer	SIC Code: 2873

controlled to maintain a reasonably constant flow rate throughout each 24 hour period; (2) Sanitary wastes must be discharged to an on-site disposal system; (3) Proper handling of waste solids and O&G; (4) Appropriate spill prevention and response; (5) Continuation of program to reduce fresh water consumption; (6) and proper supervision, and O&M of treatment facilities. These 6 special conditions are incorporated based on the past permit. In addition, certain monitoring requirements described in the permit may also be considered special conditions. These specific monitoring requirements are described above.

Effective Date: 06/08/92	Expiration Date: 06/30/97	Abstract Date: 04/19/93

Facility Name: Bradford Dyeing Assoc., Inc. | Permit Number: RI0000043

Facility Description: Dyes and finishes wool and woven cloth products | SIC Code: 2269

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	√	√	√

Abstract Information:
Complete; Outfall 002 (created for abstracting purposes), 002A, 002B, 002C, 002D, and 002E.

Outfall: 002 | Receiving Water: Pawcatuck River | Treatment: AL

Amount/Components:
3.4 cfs design flow of wastewaters from manufacturing processes, sanitary, cooling, potable, and storm water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A N/A	See below	1/quarter	24hr fw composite
Cd (T)	N/A 3.000000 ug/l	N/A 6.000000 ug/l		2/month	24hr fw composite
Coliform (T)	200.000000 N/A	400.000000 N/A	Units: MPN/100 ml	2/month	grab
Cu (T)	N/A 36.000000 ug/l	N/A 36.000000 ug/l		2/month	24hr composite
FC	200.000000 N/A	400.000000 N/A	Units: MPN/100 ml	2/month	grab
Flow	2.300000 MGD N/A	3.600000 MGD N/A		Continuous	recorder
NH3 (T)	N/A N/A	N/A N/A	Monitor in WET testi ng	every 2sp.event	
Other	N/A N/A	N/A Report mg/l	Ortho-phosphorus	1/month	24hr composite
P (T)	N/A N/A	N/A Report mg/l	Monitor 1 year only	1/month	24hr composite
Pb (T)	N/A 1.000000 ug/l	N/A 2.000000 ug/l	< 1 ug/l monthly ave rage	2/month	24hr composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/operating day	grab
Priority pollutan ts	N/A N/A	N/A N/A	See below	2/year	Varies
Sb (T)	N/A 116.000000 ug/l	N/A 232.000000 ug/l		2/month	24hr composite
TOC	N/A N/A	N/A N/A	Monitor in WET testi ng	every 2sp.event	
Zn (T)	N/A 368.000000 ug/l	N/A 406.000000 ug/l		2/month	24hr composite

Limitations/Monitoring Basis:
Outfall 002 was created for abstracting purposes to represent those limitations which are in effect, regardless of varying production. These limits apply in conjunction with Outfalls 002A, 002B, 002C, 002D, and 002E tiered limits. Generally, limitations and monitoring requirements are based on ELGs, State WQSs, State regulations, and BPJ. FC is included and limited due to the sanitary wastewater discharge. Limits are based on State performance standards for secondary treatment. A review of sampling data from the State User Fee Program and DMRs indicated the need to monitor and limit Sb (T), Cd (T), Cu (T), Pb (T), and Zn (T); WQ-based limits were calculated using water quality criteria and minimum database guidelines. Daily max. limits for Sb (T), Pb (T), and Cd (T) were statistically derived from the monthly avg. because the daily max. limit is more than two times themonthly avg. Limits bases for flow and pH were not specifically explained. Monitoring for P nutrients is specified in order to determine nutrient

Facility Name: Bradford Dyeing Assoc., Inc. | Permit Number: RI0000043

Facility Description: Dyes and finishes wool and woven cloth products | SIC Code: 2269

loads to the receiving water and aid in determining if nutrient removal is necessary. Priority pollutant monitoring is specified pursuant to the State User Fee Program. Acute WET testing is set out in conformance with 40 CFR 131.11 and State water quality regulations. Testing must be conducted on two species in accordance with EPA guidance manual procedures. Natural freshwater is required for dilution. Chemical specific analyses of hardness, alkalinity, pH, specific conductance, TS, TSS, NH3, TOC, phenols, CN, Sb (T), Cd (T), Cu (T), Pb (T), and ZN (T) is required at varying frequencies of the effluent and in some cases the dilution water. Specific requirements relating to recordkeeping and reporting, endpoint calculations,and sampling are also provided for WET testing.

Outfall: 002A | Receiving Water: Pawcatuck R. | Treatment: AL

Amount/Components:
3.4 cfs design flow of wastewaters from manufacturing processes, sanitary, cooling, potable, and storm water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	198.000000 lb/d Report mg/l	396.000000 lb/d Report mg/l		2/week	24hr composite
COD	3102.000000 lb/d Report mg/l	4800.000000 lb/d Report mg/l		2/week	24hr composite
Cr (T)	0.700000 lb/d Report mg/l	0.700000 lb/d Report mg/l		2/month	24hr composite
Phenols	0.500000 lb/d Report mg/l	0.500000 lb/d Report mg/l		2/month	Grab
Sulfide	6.000000 lb/d Report mg/l	12.000000 lb/d Report mg/l		2/month	grab
Surfactants	4.300000 lb/d Report mg/l	4.300000 lb/d Report mg/l		2/month	24hr composite
TSS	510.000000 lb/d Report mg/l	660.000000 lb/d Report mg/l		2/week	24hr composite

Limitations/Monitoring Basis:
BOD, sulfide, and COD (monthly av. only) limits are ELG-based consistent with textile manufacturing (40 CFR Part 410, Subparts B, C, and D). COD (daily max. only), TSS, phenols, Cr (T), and surfactants limits are based on a 1986 Compliance Order issued by the State. Limits for surfactants are also consistent with the permit issued in 1983. These limits are effective through production of less than or equal to 60,000 lb/d. Tiered limitshave been established pursuant to EPA 12/28/84 guidance regarding the application of production-based limits when fluctuations occur. The basis of monitoring conditions was not described.

Outfall: 002B | Receiving Water: Pawcatuck R. | Treatment: AL

Amount/Components:
3.4 cfs design flow of wastewaters from manufacturing processes, sanitary, cooling, potable, and storm water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	264.000000 lb/d Report mg/l	528.000000 lb/d Report mg/l		1/month	24hr composite
COD	4136.000000 lb/d Report mg/l	6400.000000 lb/d Report mg/l		2/week	24hr composite
Cr (T)	1.000000 lb/d Report mg/l	1.000000 lb/d Report mg/l		2/month	24hr composite
Phenols	0.600000 lb/d Report mg/l	0.600000 lb/d Report mg/l		2/month	Grab
Sulfide	8.000000 lb/d Report mg/l	16.000000 lb/d Report mg/l		2/month	grab
Surfactants	5.800000 lb/d Report mg/l	5.800000 lb/d Report mg/l		2/month	24hr composite

Facility Name: Bradford Dyeing Assoc., Inc. | Permit Number: RI0000043

Facility Description: Dyes and finishes wool and woven cloth products | SIC Code: 2269

TSS	680.000000 lb/d Report mg/l	880.000000 lb/d Report mg/l		2/week	24hr composite

Limitations/Monitoring Basis:
BOD, sulfide, and COD (monthly av. only) limits are ELG-based consistent with textile manufacturing (40 CFR Part 410, Subparts B, C, and D). COD (daily max. only), TSS, phenols, Cr (T), and surfactants limits are based on a 1986 Compliance Order issued by the State. Limits for surfactants are also consistent with the permit issued in 1983. These limits are effective through production of 60,000 lb/day to 80,000 lb/day. Tiered limitshave been established pursuant to EPA 12/28/84 guidance regarding the application of production-based limits when fluctuations occur. The basis of monitoring conditions was not described.

Outfall: 002C | Receiving Water: Pawcatuck R. | Treatment: AL

Amount/Components:
3.4 cfs design flow of wastewaters from manufacturing processes, sanitary, cooling, potable, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	330.000000 lb/d Report mg/l	660.000000 lb/d Report mg/l		1/month	24hr composite
COD	5170.000000 lb/d Report mg/l	8000.000000 lb/d Report mg/l		2/week	24hr composite
Cr (T)	1.200000 lb/d Report mg/l	1.200000 lb/d Report mg/l		2/month	24hr composite
Phenols	0.800000 lb/d Report mg/l	0.800000 lb/d Report mg/l		2/month	Grab
Sulfide	10.000000 lb/d Report mg/l	20.000000 lb/d Report mg/l		2/month	grab
Surfactants	7.200000 lb/d Report mg/l	7.200000 lb/d Report mg/l		2/month	24hr composite
TSS	850.000000 lb/d Report mg/l	1100.000000 lb/d Report mg/l		2/week	24hr composite

Limitations/Monitoring Basis:
BOD, sulfide, and COD (monthly av. only) limits are ELG-based consistent with textile manufacturing (40 CFR Part 410, Subparts B, C, and D). COD (daily max. only), TSS, phenols, Cr (T), and surfactants limits are based on a 1986 Compliance Order issued by the State. Limits for surfactants are also consistent with the permit issued in 1983. These limits are effective through production of 80,001 to 100,000 lb/d. Tiered limitshave been established pursuant to EPA 12/28/84 guidance regarding the application of production-based limits when fluctuations occur. The basis of monitoring conditions was not described.

Outfall: 002D | Receiving Water: Pawcatuck R. | Treatment: AL

Amount/Components:
3.4 cfs design flow of wastewaters from manufacturing processes, sanitary, cooling, potable, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	396.000000 lb/d Report mg/l	792.000000 lb/d Report mg/l		1/month	24hr composite
COD	6204.000000 lb/d Report mg/l	9600.000000 lb/d Report mg/l		2/week	24hr composite
Cr (T)	1.400000 lb/d Report mg/l	1.400000 lb/d Report mg/l		2/month	24hr composite
Phenols	1.000000 lb/d Report mg/l	1.000000 lb/d Report mg/l		2/month	Grab
Sulfide	12.000000 lb/d Report mg/l	24.000000 lb/d Report mg/l		2/month	grab

Facility Name: Bradford Dyeing Assoc., Inc. | Permit Number: RI0000043

Facility Description: Dyes and finishes wool and woven cloth products | SIC Code: 2269

Surfactants	8.600000 lb/d Report mg/l	8.600000 lb/d Report mg/l		2/month	24hr composite
TSS	1020.000000 lb/d Report mg/l	1320.000000 lb/d Report mg/l		2/week	24hr composite

Limitations/Monitoring Basis:
BOD, sulfide, and COD (monthly av. only) limits are ELG-based consistent with textile manufacturing (40 CFR Part 410, Subparts B, C, and D). COD (daily max. only), TSS, phenols, Cr (T), and surfactants limits are based on a 1986 Compliance Order issued by the State. Limits for surfactants are also consistent with the permit issued in 1983. These limits are effective through production of 100,001 to 120,000 lb/d. Tiered limitshave been established pursuant to EPA 12/28/84 guidance regarding the application of production-based limits when fluctuations occur. The basis of monitoring conditions was not described.

Outfall: 002E | Receiving Water: Pawcatuck R. | Treatment: AL

Amount/Components:
3.4 cfs design flow of wastewaters from manufacturing processes, sanitary, cooling, potable, and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	462.000000 lb/d Report mg/l	924.000000 lb/d Report mg/l		1/month	24hr composite
COD	7238.000000 lb/d Report mg/l	11200.000000 lb/d Report mg/l		2/week	24hr composite
Cr (T)	1.700000 lb/d Report mg/l	1.700000 lb/d Report mg/l		2/month	24hr composite
Phenols	1.100000 lb/d Report mg/l	1.100000 lb/d Report mg/l		2/month	Grab
Sulfide	14.000000 lb/d Report mg/l	28.000000 lb/d Report mg/l		2/month	grab
Surfactants	10.000000 lb/d Report mg/l	10.000000 lb/d Report mg/l		2/month	24hr composite
TSS	1190.000000 lb/d Report mg/l	1540.000000 lb/d Report mg/l		2/week	24hr composite

Limitations/Monitoring Basis:
BOD, sulfide, and COD (monthly av. only) limits are ELG-based consistent with textile manufacturing (40 CFR Part 410, Subparts B, C, and D). COD (daily max. only), TSS, phenols, Cr (T), and surfactants limits are based on a 1986 Compliance Order issued by the State. Limits for surfactants are also consistent with the permit issued in 1983. These limits are effective through production of 120,001 to 140,000 lb/d. Tiered limitshave been established pursuant to EPA 12/28/84 guidance regarding the application of production-based limits when fluctuations occur. The basis of monitoring conditions was not described.

Special Conditions Basis:
For all pollutants limited, results of less than the MDLs specified by RI Department of Health will constitute compliance with the limit. When the MDL is not achievable in effluent, but is achievable in reagent water, results reported as not detected will not be deemed a violation (subject to certification by laboratory director). MDL requirements are based on Appendix B of the State Water Quality Regulations for Water Pollution Control. A study is required to determine the causes of foam and discoloration resulting from the discharge. The permittee is required to analyze its effluent semi-annually for priority pollutants listed in 40 CFR Part 122, Appendix D, Tbls. IIa, as specified by the State User Fee Program. Recording of the monthly production shall be conducted and this information reported annually.

Effective Date: 11/10/91 | Expiration Date: 10/11/96 | Abstract Date: 03/30/93

Facility Name: Northeast Atlantic Seafood Ltd | **Permit Number:** RI0021920

Facility Description: Fresh fish packaging and distribution | **SIC Code:** 2092

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	√

Abstract Information:
Complete; Outfall 001A.

Outfall: 001A | **Receiving Water:** Point Judith Pond | **Treatment:** None.

Amount/Components:
0.202 MGD of untreated fish transport flume seawater

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A N/A	N/A Report mg/l		1/month	24hr fw composite
Flow	N/A N/A	N/A 0.202000 MGD		1/month	estimate
NH3-N	N/A N/A	N/A Report mg/l		1/month	24hr fw composite
O&G	N/A N/A	N/A Report mg/l		1/month	grab
pH	N/A N/A	N/A N/A	Between 6.8 su and 8 .5 su	1/month	grab
TSS	N/A N/A	N/A Report mg/l		1/month	24hr fw composite

Limitations/Monitoring Basis:
A discussion of the basis of the pH limitation was not provided. Effluent monitoring requirements are specified in accordance with the State regulations as well as 40 CFR 122.4(i), 122.41(j) and 122.48 to yield data representative of the discharge.

Special Conditions Basis:
Influent monitoring with appropriate allowances for hydraulic detention time, reflective of effluent monitoring, was required for all parameters. General and specific conditions common to all permits are based on the State regulations as well as 40 CFR Parts 122 through 125. The basis of the special conditions was not described.

Effective Date: 05/31/91 | **Expiration Date:** 05/31/96 | **Abstract Date:** 04/06/93

Facility Name: Sun Refining and Marketing Co. | Permit Number: RI0021946

Facility Description: Gas station groundwater remediation | SIC Code: 5983

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	-	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfall 001A.

Outfall: 001A | Receiving Water: Wetland Trib. to Crookfall Br. | Treatment: AirS, +GAC

Amount/Components:
20 gpm of remediated gasoline contaminated groundwater

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Benzene	N/A N/A ug/l	N/A 1.000000 ug/l	See below	1/2 weeks	grab
Ethylbenzene	N/A N/A	N/A 1.000000 ug/l	See below	1/2 weeks	grab
Flow	Report gpm N/A	20.000000 gpm N/A		continuous	recorder
Methyl tert butyl ether	N/A N/A	N/A 20.000000 ug/l	See below	1/2 weeks	grab
Other	N/A N/A	N/A 3.000000 ug/l	Xylene (T)	1/2 weeks	grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .0 su	1/2 weeks	grab
Toluene	N/A N/A	N/A 1.000000 ug/l	See below	1/2 weeks	grab

Limitations/Monitoring Basis:
The limits for benzene, ethyl-benzene, toluene, and xylenes (T) are set equal to the analytical detection limit (method not specified) so as to preclude discharges of the substances. Although the benzene limit is greaterthan the proposed human health water ingestion criteria of 0.66 ug/l, this criteria is based on ingestion of 2 liters of water for 70 years; the duration of the project is expected to be less than 7 years. The limit for MTBE is BPJ-based consistent with the treatment systems performance; this limit is half of the State health advisory level. Limitations for benzene, toluene, ethylbenzene, and xylenes (T) have been recorded in the permit as less than (<) the limit. The sampling frequency of once every two weeks was selected since the treatment system of packed tower air stripping followed by activated carbon will provide a greater degree of protection agaist breakthrough than would normally be required.

Special Conditions Basis:
Special conditions include: (1) the permittee is required to operate and maintain the recovery/treatment system in accordance with the requirements of the Division of Groundwater and Freshwater Wetlands Protection; any failure of the system must be reported to this division, (2) the permittee shall treat all groundwater pumped at the site using the system described in the RIPDES application; and (3) the permittee shall obtain approval anor any necessary permits from the Division of Air and Hazardous Materials prior to commencement of the discharge. These requirements are based on State Water Quality Regulations and the State's Permit Regulations, both filed pursuant to Ch. 46-12, as amended.

Effective Date: 05/31/91 | Expiration Date: 05/31/96 | Abstract Date: 04/06/93

Facility Name: Dart Industries, Inc | Permit Number: RI0022021

Facility Description: Manufactures styrofoam products | SIC Code: 3086

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	=	√	=	=	=	=	=	=	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	=	=	=	=	=	=	=	=	√

Abstract Information:
Complete; Outfall 001A.

Outfall: 001A | Receiving Water: Blackstone River | Treatment: API, AirS, GAC

Amount/Components:
20 gpm of remediated gasoline contaminated groundwater

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chlorobenzene	N/A N/A	N/A 180.000000 ug/l		1/month	grag
Chlorodibromomethane	N/A N/A	N/A 10.000000 ug/l		1/month	grab
Ethylbenzene	N/A N/A	N/A 360.000000 ug/l		1/month	grab
Flow	Report gpm N/A	N/A 20.000000 gpm		1/day	totalizer
Methylene chloride	N/A N/A	N/A 2140.000000 ug/l		1/month	grab
Other	N/A N/A	N/A 30.000000 ug/l	Xylene	1/month	grab
PCBs (T)	N/A N/A	N/A 10.000000 ug/l	See below	1/month	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 8 .5 su	1/month	grab
Tetrachloroethylene	N/A N/A	N/A 430.000000 ug/l		1/month	grab
Vinyl chloride	N/A N/A	N/A 50.000000 ug/l		1/month	grab

Limitations/Monitoring Basis:
The limits for chlorobenzene, ethylbenzene, methylene chloride, tetrachloro-ethylene, toluene and trichloroethylene are WQ-based consistent with Rhode Island WQSs protection of chronic toxicity and a dilution factor of 10. "The discharge limitations were established to ensure that the discharge meets the Rhode Island Department of Environmental Management Minimum Database Guidelines." The limit for PCBs (T) has been recorded in the permit at <10 ug/l. Monitoring shall be changed to 1/quarter upon notification to the State of the completion of the oil recovery phase. A discussion of the basis for the other pollutant was not provided. A discussion of the basis of the monitoring conditions was not provided.

Special Conditions Basis:
Special conditions inlcude: (1) the permittee must operate the recovery/treatment system in accordance with the requirements of the Division of Groundwater and Freshwater Wetlands Protection; (2) the permittee shall treat all groundwater pumped at the site using the system described in the RPDES application; and (3) the permittee must obtain approval and/or any necessary permits from the Division of Air and Hazardous Materials prior to commencement of the discharge. The requirements of the permit are based on the State's Water Quality Regulations and the State's Permit Regulations, filed pursuant to ch. 46-12, as amended.

Effective Date: 07/30/91 | Expiration Date: 07/30/96 | Abstract Date: 04/06/93

Facility Name: Duke Power, Oconee Station | Permit Number: SC0000515

Facility Description: Nuclear power plant | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	√	√	√

Abstract Information:
Complete; Outfall 001 (A & B for abstracting purposes), 002 (A&B for abstracting purposes, 003, 004, 005, and 006.

Outfall: 001A | Receiving Water: Keowee Lake | Treatment: None.

Amount/Components:
2324.76 MGD of once through cooling water.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/hour	pump logs
Temp.	N/A N/A	N/A N/A	See below	1/hour	calculation

Limitations/Monitoring Basis:
Outfall 001A is created for abstracting purposes to represent those requirements effective from 08/01/92 through 05/31/94. Temp. may not exceed 100 F for more than 2 hours unless specifically cited conditions occur and then the temp. may not exceed 103 F. The max. temp. rise must be less than 22 F when the intake temp. is more than 68 F. The discharge from the Station to Lake Hartwell is limited to 90 F daily avg. calculated by the sum of the temps. in a month divided by the number of measurements in a month. The discharge temp. from the Station shall be monitored by continuous recorder. TRC and FAC may not be discharged. The monitoring requirements are continued from the previous permit. The temperature limitation is based on State WQSs.

Outfall: 001B | Receiving Water: Keowee Lake | Treatment: None.

Amount/Components:
2324.76 MGD of once through cooling water and miscellaneous non-contact cooling water.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/hour	estimate
Temp.	N/A N/A	N/A N/A	See below	1/hour	calculation

Limitations/Monitoring Basis:
Outfall 001B is created for abstracting purposes to represent those requirements effective from 06/01/94 through 07/31/97. The temp. rise is limited to 5 F daily max. as calculated by substracting the intake temp. from the discharge temp. Monitoring for the intake temp. must be conducted 1/day by continuous sampling. TRC and FAC may not be discharged. The permittee is required to maintain a record of the method (s) used to "measure" orestimate flow. The monitoring requirements are continued from the previous permit. The temp. limitation is based on State WQSs.

Outfall: 002A | Receiving Water: Keowee River | Treatment: Not specified.

Amount/Components:
3.7 MGD of low volume wastes, sanitary sewage, chemical metal cleaning wastes, landfill leachate, and miscellaneous drains.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
asbestos (fibrous)	N/A Report	N/A Report	Units not specified	1/year	grab

Facility Name: Duke Power, Oconee Station | Permit Number: SC0000515

Facility Description: Nuclear power plant | SIC Code: 4931

Cd (T)	N/A Report	N/A Report	Units not specified	1/month	grab
Chronic WET	N/A N/A	N/A N/A	See below	1/month	24hr composite
Cu (T)	N/A Report	N/A Report	Units not specified	1/month	grab
Flow	N/A N/A	N/A N/A	Reporting not given	1/week	flow indicator
Hydrazine	N/A Report	N/A Report	Units not specified	1/month	grab
O&G	N/A 14.000000 mg/l	N/A 19.000000 mg/l		2/year	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/week	grab
TRC	N/A Report	N/A Report	Units not specified	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 98.000000 mg/l		1/quarter	grab

Limitations/Monitoring Basis:
Outfall 002A was created for abstracting purposes to represent those limitations effective from 08/01/92 through 05/31/94. Sampling for Cu (T) is to be performed when metal cleaning wastes are expected in the discharge.The permit includes limits for excursions from the pH range when measured continuously as follows: the total time during which the values are outside the required range must not exceed 7 hours and 26 minutes in any calendar month; and, no individual excursion from the range of pH values is allowed to exceed 60 minutes. A 3-broad chronic toxicity test is required (based on State regulations) using a control and the IWC of 100%. The test is to be conducted using one specie and following EPA and State guidance documents. After 12 consecutive months of "passed" toxicity testing results, the permitting authority may terminate screening and impose a limitation. Monitoring requirements for flow were continued from the previous permit. Monitoring will be required for Cu, Cd, and hydrozine because they are expected to be present. The pH and TRC limits are based on State WQSs.The detection level was established as the TRC limits because the State WQSs were lower than the limit of detection. The O&G and TSS limits are based on ELGs in 40 CFR Part 423.13 and account for dilution by noncontaminated flows.

Outfall: 003 | Receiving Water: Internal to Outfall 002 | Treatment: AL, Dis

Amount/Components:
0.035 MGD of sanitary sewage.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 30.000000 mg/l	N/A 60.000000 mg/l		1/quarter	grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	1/quarter	grab
Flow	N/A Report MGD	N/A Report MGD		1/quarter	instantaneous
TSS	N/A 90.000000 mg/l	N/A 135.000000 mg/l		1/quarter	grab

Limitations/Monitoring Basis:
The permittee is required to maintain a record of the method (s) used to "measure" or estimate flow. The flow monitoring condition is continued from the previous permit. The FC, BOD5, and TSS limits and monitoring conditions are continued from the previous permit.

Facility Name: Duke Power, Oconee Station | Permit Number: SC0000515

Facility Description: Nuclear power plant | SIC Code: 4931

Outfall: 004 | Receiving Water: Internal to Outfall 002 | Treatment: Fil, Demin, Evap, Inc, Mix

Amount/Components:
0.007 MGD of radwaste system discharges.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
B	N/A Report	N/A Report	Units not specified	1/quarter	30day composite
Flow	N/A Report MGD	N/A Report MGD		1/quarter	estimate
Hydrazine	N/A Report	N/A Report	Units not specified	1/month	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	grab

Limitations/Monitoring Basis:
The same limitations apply when this outfall is converted to discharges of low level radiological wastes and chemical metal cleaning wastes by 6/1/94. The permittee is required to maintain a record of the method (s) used to "measure" or estimate flow. Flow monitoring requirements are established based on the need for historical data for permit writing purposes. The pH limits are based on State WQSs. Monitoring for B is continued from the previous permit. Monitoring requirements are established for hydrazine because it is expected to be present.

Outfall: 005 | Receiving Water: Internal to Outfall 002 | Treatment: Neut + ChPt + Demin + Inc

Amount/Components:
0.18 MGD of chemcial metal cleaning wastes.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cu (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l		1/batch	grab
Fe (T)	N/A 1.000000 mg/l	N/A 1.000000 mg/l		1/batch	grab
Flow	N/A Report MGD	N/A Report MGD		1/batch	instantaneous

Limitations/Monitoring Basis:
The permittee is required to maintain a record of the method (s) used to "measure" or estimate flow. The limits for Fe (T) and Cu (T) are based on ELGs in 40 CFR Part 423.13.

Outfall: 006 | Receiving Water: Internal to Outfall 002 | Treatment: Neut + API + Sed

Amount/Components:
0.0023 MGD of landfill leachate

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Ag	N/A N/A	N/A Report	Units not specified	1/month	grab
As	N/A N/A	N/A Report	Units not specified	1/month	grab
Ba	N/A N/A	N/A Report	Units not specified	1/month	grab
BOD5	N/A Report	N/A Report	Units not specified	2/month	grab

Facility Name: Duke Power, Oconee Station | Permit Number: SC0000515

Facility Description: Nuclear power plant | SIC Code: 4931

Cd	N/A N/A	N/A Report	Units not specified	1/month	grab
Cr	N/A N/A	N/A Report	Units not specified	1/month	grab
Flow	N/A N/A	N/A Report	Units not specified	1/month	instantaneous
Hg	N/A N/A	N/A Report	Units not specified	1/month	grab
NO3	N/A N/A	N/A Report	Units not specified	1/month	grab
O&G	N/A Report	N/A Report	Units not specified	2/month	grab
Pb	N/A N/A	N/A Report	Units not specified	1/month	grab
pH	N/A Report	N/A Report	Units not specified	2/month	grab
Se	N/A N/A	N/A Report	Units not specified	1/month	grab
Specific conductance	N/A N/A	N/A Report	Units not specified	1/month	grab
TOC	N/A Report	N/A Report	Units not specified	2/month	grab
TSS	N/A Report	N/A Report	Units not specified	1/month	grab
Zn	N/A N/A	N/A Report	Units not specified	1/month	grab

Limitations/Monitoring Basis:
Sampling is not required until the landfill becomes operational. The permittee is required to maintain a record of the method (s) used to "measure" or estimate flow. Beginning 6 months after the landfill receives its first waste via Outfall 006, the permittee is required to sample the discharge for the form 2C parameters 1/year. Monitoring requirements were established for parameters that are expected to be present.

Outfall: 002B | Receiving Water: Keowee River | Treatment: Not specified.

Amount/Components:
3.7 MGD of low volume wastes, sanitary sewage, chemical metal cleaning wastes, landfill leachate, and miscellaneous drains.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
asbestos (fibrous)	N/A Report	N/A Report	Units not specified	1/year	grab
Cd (T)	N/A N/A	N/A Report	Less than 0.01 mg/l	1/month	grab
Chronic WET	N/A N/A	N/A N/A	See below	1/month	24hr composite
Cu (T)	N/A N/A	N/A Report	Less than 0.01 mg/l	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	instantaneous
Hydrazine	N/A Report mg/l	N/A 0.012200 mg/l		1/month	grab

Facility Name: Duke Power, Oconee Station

Permit Number: SC0000515

Facility Description: Nuclear power plant

SIC Code: 4931

O&G	N/A 14.000000 mg/l	N/A 19.000000 mg/l		2/year	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 8 .5 su	1/week	grab
TRC	N/A N/A	N/A Report	Less than 0.1 mg/l	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 98.000000 mg/l		1/quarter	grab

Limitations/Monitoring Basis:

Outfall 002B was created for abstracting purposes to represent those limitations effective from 06/01/94 through 07/31/97. Allowable pH excursions are described under Outfall 002A. Although the Cu, Cd, and TRC limits were developed based on EPA Water Quality Criteria, the limits represent the current detection limit. The permittee is required to maintain a record of the method (s) used to "measure" or estimate flow. See the limitations/monitoring basis discussion for other parameters under Outfall 002A.

Special Conditions Basis:

If the chronic toxicity test fails, the permittee must submit a toxicity evaluation plan. The permit contains a compliance schedule for achieving the thermal limitations. The permittee must submit a sudy plan in the form of a 316 (a) variance request, a mixing zone request, or the steps to be taken to achieve the final thermal limitations. The permittee is required to continue to maintain a BMP plan to identify and control the dischargeof significant amounts of substances specified in 40 CFR Parts 117 and 122. The discharge of PCBs is prohibited per 40 CFR Part 423.13. Documentation on the use of maintenance chemicals for once through cooling water, recirculated cooling water, boiler and cooling tower blowdown, and air washer water must be maintained onsite and available for review. The permittee is required to submit a plan for handling sludge and solid waste within 90 days of the permit effective date. A groundwater monitoring plan containing specified elements for all treatment impoundments is required within 90 days.

Effective Date: 08/01/92 Expiration Date: 07/31/97 Abstract Date: 06/01/93

Facility Name: Cone Mills Corp., Carlisle | Permit Number: SC0001368

Facility Description: Fabric finisher | SIC Code: 2269

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	√	-	-	-	-	√	√

Abstract Information:
Complete; Outfalls 001 (A & B for abstracting purposes), 002, and 003.

Outfall: 001A | Receiving Water: Broad River | Treatment: Scr, Neut, AL, EQ, Floc, Sed

Amount/Components:
2.0 MGD of process and sanitary wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	840.000000 lb/d N/A	1680.000000 lb/d N/A		3/week	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/month	24hr fw composite
COD	13400.000000 lb/d N/A	26800.000000 lb/d N/A		3/week	24hr fw composite
Cr (T)	12.800000 lb/d N/A	25.500000 lb/d N/A		1/week	24hr fw composite
DO	N/A N/A	N/A N/A	2.0 mg/l minimum	1/week	grab
FC	N/A 1000.000000	N/A 2000.000000	Units:#/100 ml; see below	1/week	grab
Flow	N/A N/A	N/A N/A	Reporting not specified	1/day	continuous
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	continuous	record
Phenols	12.800000 lb/d N/A	25.500000 lb/d N/A		1/month	grab
S	25.500000 lb/d N/A	51.000000 lb/d N/A		1/month	grab
TSS	2270.000000 lb/d N/A	4540.000000 lb/d N/A		3/week	24hr fw composite

Limitations/Monitoring Basis:
Outfall 001A was created for abstracting purposes to represent those limitations effective from 11/01/91 through the first day of the month at least 30 days after the permittee notifies the state that 330,000 lb/d production is attained. The production level used to calculate the limits was 255,000 lb/d. The limits for BOD5, TSS, COD, Cr(T), phenols, FC monthly average and sulfide were based on ELGs from 40 CFR Part 410 Subpart D. The daily maximum FC limit was based on State WQSs for a Class B stream. The permittee is required to maintain the pH of the effluent within the range given in the permit, with allowance for the following excursions: the total time during which the pH values are outside the required range should not exceed 7 hours and 26 minutes in any calendar month; and no individual excursion should exceed 60 minutes. Chronic toxicity testing is required per State regulations using a control and an IWC of 10%. The test is to be conducted using a Ceriodaphnia dubia as the test organism, following specified EPA and State guidance documents. Twelve months of acceptable toxicity testing may result in a reduction in the frequency of testing to quarterly. After these twelve months, the permitting authority may terminate the screening process and impose a WET testing limitation. The basis for other monitoring conditions were not discussed.

Facility Name: Cone Mills Corp., Carlisle | Permit Number: SC0001368

Facility Description: Fabric finisher | SIC Code: 2269

Outfall: 001B | Receiving Water: Broad River | Treatment: Scr, Neut, AL, EQ, Floc, Sed

Amount/Components:
2.0 MGD of process and sanitary wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	1150.000000 lb/d N/A	2300.000000 lb/d N/A		3/week	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/month	24hr fw composite
COD	20900.000000 lb/d N/A	41800.000000 lb/d N/A		3/week	24hr fw composite
Cr (T)	17.400000 lb/d N/A	34.800000 lb/d N/A		1/week	24hr fw composite
DO	N/A N/A	N/A N/A	2.0 mg/l minimum	1/week	grab
FC	N/A 200.000000	N/A 400.000000	Units:#/100 ml; see below	1/week	grab
Flow	N/A N/A	N/A N/A	Reporting not specified	1/day	continuous
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	continuous	record
Phenols	17.400000 lb/d N/A	34.800000 lb/d N/A		1/month	grab
S	34.800000 lb/d N/A	69.600000 lb/d N/A		1/month	grab
TSS	3100.000000 lb/d N/A	6200.000000 lb/d N/A		3/week	24hr fw composite

Limitations/Monitoring Basis:
Outfall 001B was created for abstracting purposes to represent those limitations effective from the first day of the month at least 30 days after the permittee notifies the state that 330,000 lb/d production is attained through 04/30/95. See the basis discussion for Outfall 001A.

Outfall: 002 | Receiving Water: Unnamed trib. to Broad River | Treatment: Sed

Amount/Components:
0.05 MGD of water plant wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A 0.050000 MGD		1/day	instantaneous
pH	N/A N/A	N/A N/A	Between 6.0 and 9.0 su	1/week	grab
TRC	N/A N/A	N/A 0.100000 mg/l	Limit is <0.1 mg/l	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 60.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
Flow is to be monitored during discharge periods with a daily maximum flow of 0.05 MGD. The limit for TSS is based on the standard State limit and the advice of the Wasteload Allocation Section of the permitting authority, to protect the Broad River during periods of heavy rains. The TRC limit is WQ-based and takes into consideration data submitted in the application. The basis for other monitoring conditions was not discussed.

Facility Name: Cone Mills Corp., Carlisle | Permit Number: SC0001368

Facility Description: Fabric finisher | SIC Code: 2269

Outfall: 003 | Receiving Water: Unnamed trib. to Broad River | Treatment: Not specified.

Amount/Components:
0.05 MGD of ash water.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 10.000000 lb/d	N/A 20.000000 lb/d		1/week	24hr fw composite
Cu	N/A N/A	N/A 10.000000 ug/l	Limit is <10 ug/l	1/week	grab
Flow	N/A N/A	N/A 0.050000 MGD		1/day	instantaneous
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l		1/week	grab
Pb (T)	N/A N/A	N/A Report	Units not specified	1/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 50.000000 mg/l		1/week	grab
Zn	N/A 59.000000 ug/l	N/A 65.000000 ug/l		1/week	grab

Limitations/Monitoring Basis:
The limits for BOD5 are based on the standard State limit and the advice of the Wasteload Allocation Section of the permitting authority, to protect the Broad River during periods of heavy rains. The limits for TSS and O&G are continued from the previous permit. Limits for Cu, Pb, and Zn are based on data submitted with the permit application and State WQSs. No mass limits were included because the expected amounts are well below water quality concerns. The basis for other monitoring conditions was not discussed.

Special Conditions Basis:
The permittee is required to submit an annual sludge and soil testing report to the permitting authority. The permit contains a list of 60 parameters to be analyzed for in these tests. Sludge testing is required every time the sludge is spread, with at least one analysis per year. The permit includes several requirements in regard to use and testing of the sludge. The permittee is required to analyze several groundwater testing wells for 12 parameters and submit a report on a quarterly basis. The permit contains a compliance schedule for the fecal coliform limits. The requirement for a BMP plan relates to the identification and control of toxic and hazardous substances listed in 40 CFR Part 117 and Tables II and III of Appendix D to 40 CFR Part 122. If the results of toxicity testing fail, a toxicity evaluation plan must be submitted to the permitting authority within 60 days.

Effective Date: 11/01/91 | Expiration Date: 04/30/95 | Abstract Date: 06/01/93

Facility Name: Miles Inc., Bushy Park Plant | Permit Number: SC0003441

Facility Description: Manufacturer of organic dyes | SIC Code: 2865

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	-	-

Abstract Information:
Complete; Outfalls 001 (A & B created for abstracting purposes), 002, and 003.

Outfall: 001A | Receiving Water: Cooper River | Treatment: None specified

Amount/Components:
3.5 MGD of process and sanitary wastewater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	0.360000 lb/d N/A	0.920000 lb/d Report	Conc. units not specified	1/year	grab
1,1,2-Trichloroethane	0.360000 lb/d N/A	0.920000 lb/d Report	Conc. units not specified	1/year	grab
1,1-Dichloroethane	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/year	grab
1,1-Dichloroethylene	0.270000 lb/d N/A	0.430000 lb/d Report	Conc. units not specified	1/month	grab
1,2,4-Trichlorobenzene	1.160000 lb/d N/A	2.390000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
1,2-Dichlorobenzene	1.310000 lb/d N/A	2.780000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
1,2-Dichloroethane	1.160000 lb/d N/A	3.600000 lb/d Report	Conc. units not specified	1/year	grab
1,2-Dichloropropane	2.610000 lb/d N/A	3.920000 lb/d Report	Conc. units not specified	1/year	grab
1,2-Trans-Dichloroethylene	0.360000 lb/d N/A	0.920000 lb/d Report	Conc. units not specified	1/year	grab
1,3-Cis-Dichloropropylene	0.490000 lb/d N/A	0.750000 lb/d Report	Conc. units not specified	1/year	grab
1,3-Dichlorobenzene	0.530000 lb/d N/A	0.750000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
1,4-Dichlorobenzene	0.260000 lb/d N/A	0.480000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
2,4-Dichlorophenol	0.660000 lb/d N/A	1.910000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2,4-Dimethylphenol	0.310000 lb/d N/A	0.610000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2,4-Dinitrophenol	1.210000 lb/d N/A	2.100000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2,4-Dinitrotoluene	1.930000 lb/d N/A	4.860000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2,6-Dinitrotoluene	4.350000 lb/d N/A	10.930000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2-Chlorophenol	0.530000 lb/d N/A	1.670000 lb/d Report	Conc. units not specified	1/month	24hr fw composite

Facility Name: Miles Inc., Bushy Park Plant | Permit Number: SC0003441

Facility Description: Manufacturer of organic dyes | SIC Code: 2865

2-Nitrophenol	0.700000 lb/d N/A	1.180000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
3,4-Benzofluoranthene	0.390000 lb/d N/A	1.040000 lb/d Report	Conc, units not specified	1/year	24hr fw composite
4,6-Dinitro-o-cresol	1.330000 lb/d N/A	4.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
4-Nitrophenol	1.230000 lb/d N/A	2.110000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Acenaphthene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Acenaphthylene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Acrylonitrile	1.640000 lb/d N/A	4.130000 lb/d Report	Conc. units not specified	1/year	grab
Anthracene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
As	N/A 50.000000 ug/l	N/A 100.000000 ug/l		1/month	24hr fw composite
Benzene	0.630000 lb/d N/A	2.320000 lb/d Report	Conc. units not specified	1/month	grab
Benzo (a) anthracene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Benzo (a) pyrene	0.390000 lb/d N/A	1.040000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Benzo (k) fluoranthene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Bis (2-ethylhexyl) phthalate	1.760000 lb/d N/A	4.760000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
BOD5	767.000000 lb/d N/A	2045.000000 lb/d 95.000000 mg/l		4/week	24hr fw composite
Carbon tetrachloride	0.310000 lb/d N/A	0.650000 lb/d Report	Conc. units not specified	1/month	grab
Chlorobenzene	0.260000 lb/d N/A	0.480000 lb/d Report	Conc. units not specified	1/month	grab
Chloroethane	1.770000 lb/d N/A	4.570000 lb/d Report	Conc. units not specified	1/year	grab
Chloroform	0.360000 lb/d N/A	0.780000 lb/d Report	Conc. units not specified	1/month	grab
Chronic WET	N/A N/A	N/A Report	Units not specified; see	1/quarter	24hr fw composite
Chrysene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
CN (T)	7.160000 lb/d N/A	16.180000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Cr	3.200000 lb/d N/A	5.400000 lb/d 150.000000 ug/l		4/week	24hr fw composite
Cu	2.700000 lb/d N/A	5.400000 lb/d 150.000000 ug/l		2/week	24hr fw composite
Di-n-butyl phthalate	0.460000 lb/d N/A	0.970000 lb/d Report	Conc. units not specified	1/year	24hr fw composite

Facility Name: Miles Inc., Bushy Park Plant | Permit Number: SC0003441

Facility Description: Manufacturer of organic dyes | SIC Code: 2865

Diethyl phthalate	1.380000 lb/d N/A	3.460000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Dimethyl phthalate	0.320000 lb/d N/A	0.800000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Ethylbenzene	0.550000 lb/d N/A	1.840000 lb/d Report	Conc. units not specified	1/month	grab
FC	N/A 1000.000000	N/A 2000.000000	Units: #/100 ml	1/month	grab
Flow	N/A N/A	N/A Report MGD		1/day	continuous
Fluoranthene	0.430000 lb/d N/A	1.160000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Fluorene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Hexachlorobenzene	0.260000 lb/d N/A	0.480000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Hexachlorobutadiene	0.340000 lb/d N/A	0.840000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Hexachloroethane	0.360000 lb/d N/A	0.920000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Methyl chloride	1.470000 lb/d N/A	3.240000 lb/d Report	Conc. units not specified	1/year	grab
Methylene chloride	0.680000 lb/d N/A	1.520000 lb/d Report	Conc. units not specified	1/year	grab
Naphthalene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
NH3	545.000000 lb/d N/A	720.000000 lb/d 20.000000 mg/l		2/week	24hr fw composite
Nitrobenzene	0.460000 lb/d N/A	1.160000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	continuous	record
Phenanthrene	0.380000 lb/d N/A	1.010000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Phenol	0.260000 lb/d N/A	0.440000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Phenols	7.200000 lb/d N/A	10.800000 lb/d 0.300000 mg/l		3/week	grab
Pyrene	0.430000 lb/d N/A	1.140000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Tetrachloroethylene	0.380000 lb/d N/A	0.950000 lb/d Report	Conc. units not specified	1/year	grab
TOC	4552.000000 lb/d N/A	6822.000000 lb/d Report	Conc. units not specified	2/week	24hr fw composite
Toluene	0.440000 lb/d N/A	1.360000 lb/d Report	Conc. units not specified	1/month	grab
Trichloroethylene	0.360000 lb/d N/A	0.920000 lb/d Report	Conc. units not specified	1/year	grab
TSS	972.000000 lb/d N/A	2150.000000 lb/d N/A	Conc. units not specified	4/week	24hr fw composite

Facility Name: Miles Inc., Bushy Park Plant | Permit Number: SC0003441

Facility Description: Manufacturer of organic dyes | SIC Code: 2865

Vinyl chloride	1.770000 lb/d N/A	4.570000 lb/d Report	Conc. units not specified	1/year	grab
Zn	3.800000 lb/d N/A	6.800000 lb/d 250.000000 ug/l		2/week	24hr fw composite

Limitations/Monitoring Basis:
This outfall was created to represent limits which apply from the permit effective date through 12/31/91. The permit stipulates that acenapthene and naphthalene be sampled on the day that BOD5 is sampled, as well as a 1/month sample to be analyzed as 20-day BOD. Chronic toxicity testing is to be conducted using a control and IWCs of 1.23%. The testing is to be conducted following EPA and State guidance manuals using one specie, and if the test results indicate a significant difference in survival between the control and the waste sample, the test is to be reported as a failure. Reporting codes are provided. Excursions from the pH limits are allowed as long as the total time the pH values are outside the required range does not exceed 7 hours and 26 minutes in any calendar month and no individual excursion from the range exceeds 60 minutes. The mass limits were based on an average flow of 2.043 MGD. The limits for BOD5, TSS and pH were based on 40 CFR Parts 414 and 416 Subpart H. Limits for Cu, Cr, COD, and Zn were based on the existing permit and BPJ. TOC was limited per Department concurrence with a letter cited in the permit rationale. Limits for most of the other pollutants are based on 40 CFR Part 414 Subpart I. For those pollutants that were found in detectable amounts, a comparison with water quality criteria was made. CN(T) daily maximum was based on the chronic marine water criterion, while the monthly average was based on 40 CFR Part 414. As limits were based on the previous permit. The Chronic WET testing requirements are based on State policy.

Outfall: 001B | Receiving Water: Cooper River | Treatment:

Amount/Components:
3.5 MGD of process and sanitary wastewater.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	0.610000 lb/d N/A	1.580000 lb/d Report	Conc. units not specified	1/year	grab
1,1,2-Trichloroethane	0.610000 lb/d N/A	1.580000 lb/d Report	Conc. units not specified	1/year	grab
1,1-Dichloroethane	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/year	grab
1,1-Dichloroethylene	0.470000 lb/d N/A	0.730000 lb/d Report	Conc. units not specified	1/month	grab
1,2,4-Trichlorobenzene	1.990000 lb/d N/A	4.090000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
1,2-Dichlorobenzene	2.250000 lb/d N/A	4.760000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
1,2-Dichloroethane	1.990000 lb/d N/A	6.160000 lb/d Report	Conc. units not specified	1/year	grab
1,2-Dichloropropane	4.470000 lb/d N/A	6.720000 lb/d Report	Conc. units not specified	1/year	grab
1,2-Trans-Dichloroethylene	0.610000 lb/d N/A	1.580000 lb/d Report	Conc. units not specified	1/year	grab
1,3-Cis-Dichloropropylene	0.850000 lb/d N/A	1.290000 lb/d Report	Conc. units not specified	1/year	grab
1,3-Dichlorobenzene	0.910000 lb/d N/A	1.290000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
1,4-Dichlorobenzene	0.440000 lb/d N/A	0.820000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
2,4-Dichlorophenol	1.140000 lb/d N/A	3.270000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2,4-Dimethylphenol	0.530000 lb/d N/A	1.050000 lb/d Report	Conc. units not specified	1/year	24hr fw composite

Facility Name: Miles Inc., Bushy Park Plant | Permit Number: SC0003441

Facility Description: Manufacturer of organic dyes | SIC Code: 2865

2,4-Dinitrophenol	2.070000 lb/d N/A	3.590000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2,4-Dinitrotoluene	3.300000 lb/d N/A	8.320000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2,6-Dinitrotoluene	7.450000 lb/d N/A	18.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
2-Chlorophenol	0.910000 lb/d N/A	2.860000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
2-Nitrophenol	1.200000 lb/d N/A	2.020000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
3,4-Benzofluoranthene	0.670000 lb/d N/A	1.780000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
4,6-Dinitro-o-cresol	2.280000 lb/d N/A	8.090000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
4-Nitrophenol	2.100000 lb/d N/A	3.620000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Acenaphthene	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Acenaphthylene	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Acrylonitrile	2.800000 lb/d N/A	7.070000 lb/d Report	Conc. units not specified	1/year	grab
Anthracene	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
As	1.500000 lb/d N/A	2.900000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Benzene	1.080000 lb/d N/A	3.970000 lb/d Report	Conc. units not specified	1/month	grab
Benzo (a) anthracene	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Benzo (a) pyrene	0.670000 lb/d N/A	1.780000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Benzo (k) fluoranthane	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Bis (2-ethylhexyl) phthalate	3.010000 lb/d N/A	8.150000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
BOD5	1315.000000 lb/d N/A	3510.000000 lb/d Report	Conc. units not specified	4/week	24hr fw composite
Carbon tetrachloride	0.530000 lb/d N/A	1.110000 lb/d Report	Conc. units not specified	1/month	grab
Chlorobenzene	0.440000 lb/d N/A	0.820000 lb/d Report	Conc. units not specified	1/month	grab
Chloroethane	3.040000 lb/d N/A	7.830000 lb/d Report	Conc. units not specified	1/year	grab
Chloroform	0.610000 lb/d N/A	1.340000 lb/d Report	Conc. units not specified	1/month	grab
Chronic WET	N/A N/A	N/A Report	Units not specified	1/quarter	24hr fw composite
Chrysene	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite

Facility Name: Miles Inc., Bushy Park Plant | Permit Number: SC0003441

Facility Description: Manufacturer of organic dyes | SIC Code: 2865

CN (T)	12.270000 lb/d N/A	16.180000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Cr	3.200000 lb/d N/A	5.400000 lb/d Report	Conc. units not specified	2/week	24hr fw composite
Cu	5.100000 lb/d N/A	10.200000 lb/d Report	Conc. units not specified	2/week	24hr fw composite
Di-n-butyl phthalate	0.790000 lb/d N/A	1.660000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Diethyl phthalate	2.370000 lb/d N/A	5.930000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Dimethyl phthalate	0.550000 lb/d N/A	1.370000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
DO	N/A N/A	N/A Report	1.0 mg/l min.	2/week	grab
Ethylbenzene	0.930000 lb/d N/A	3.150000 lb/d Report	Conc. units not specified	1/month	grab
FC	N/A 1000.000000	N/A 2000.000000	Units: #/100 ml	2/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	continuous
Fluoranthene	0.730000 lb/d N/A	1.990000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Fluorene	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Hexachlorobenzene	0.440000 lb/d N/A	0.820000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Hexachlorobutadiene	0.580000 lb/d N/A	1.430000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Hexachloroethane	0.610000 lb/d N/A	1.580000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Methyl chloride	2.510000 lb/d N/A	5.550000 lb/d Report	Conc. units not specified	1/year	grab
Methylene chloride	1.170000 lb/d N/A	2.600000 lb/d Report	Conc. units not specified	1/year	grab
Naphthalene	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
NH3	320.000000 lb/d N/A	640.000000 lb/d 22.000000 mg/l		4/week	24hr fw composite
Nitrobenzene	0.790000 lb/d N/A	1.990000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
O&G	N/A 10.000000 mg/l	N/A 15.000000 mg/l		2/month	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	continuous	record
Phenanthrene	0.640000 lb/d N/A	1.720000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Phenol	0.440000 lb/d N/A	0.760000 lb/d Report	Conc. units not specified	1/month	24hr fw composite
Phenols	7.200000 lb/d N/A	10.800000 lb/d 0.300000 mg/l		3/week	grab

Facility Name: Miles Inc., Bushy Park Plant | Permit Number: SC0003441

Facility Description: Manufacturer of organic dyes | SIC Code: 2865

Pyrene	0.730000 lb/d N/A	1.960000 lb/d Report	Conc. units not specified	1/year	24hr fw composite
Tetrachloroethylene	0.640000 lb/d N/A	1.640000 lb/d Report	Conc. units not specified	1/year	grab
TOC	7798.000000 lb/d N/A	11687.000000 lb/d Report	Conc. units not specified	2/week	24hr fw composite
Toluene	0.760000 lb/d N/A	2.340000 lb/d Report	Conc. units not specified	1/month	grab
TRC	N/A 0.500000 mg/l	N/A 1.000000 mg/l		2/week	grab
Trichloroethylene	0.610000 lb/d N/A	1.580000 lb/d Report	Conc. units not specified	1/year	grab
TSS	1666.000000 lb/d N/A	4378.000000 lb/d Report	Conc. units not specified	4/week	24hr fw composite
Vinyl chloride	3.040000 lb/d N/A	7.830000 lb/d Report	Conc. units not specified	1/year	grab
Zn	3.800000 lb/d N/A	6.800000 lb/d 250.000000 ug/l		2/week	24hr fw composite

Limitations/Monitoring Basis:
This outfall was created to represent limits which apply from 1/1/92 until the permit expiration date. See the permit stipulations and discussion of basis for Outfall 001A. The mass limits were based on an average flow of 3.5 MGD. The basis for the limits was the same as for Outfall 001A, with the following exceptions. Calculations for mass limits were proportioned according to the ratio of wastewater flows. A limit for DO was based on recommendations resulting from output from a watershed model.

Outfall: 002 | Receiving Water: Cooper River | Treatment: Not specified

Amount/Components:
Unspecified amount of once through noncontact cooling water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A N/A	N/A 10.000000 mg/l		2/month	grab
Flow	N/A N/A	N/A Report		1/day	estimate
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	2/month	grab
Zn (T)	2.630000 lb/d N/A	4.380000 lb/d 1.500000 mg/l		2/month	grab

Limitations/Monitoring Basis:
The basis for these monitoring conditions and limits was not discussed.

Outfall: 003 | Receiving Water: Back River | Treatment: Not specified

Amount/Components:
Water plant filter backwash.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al	N/A Report	N/A Report	Conc. units not specified	1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/month	estimate

Facility Name: Miles Inc., Bushy Park Plant					Permit Number: SC0003441
Facility Description: Manufacturer of organic dyes					SIC Code: 2865
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	1/month	grab
TSS	N/A 30.000000 mg/l	N/A 60.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:
The basis for these monitoring conditions and limits was not discussed.

Special Conditions Basis:
The BMP plan must be updated according to specified criteria, but no due date was provided. Requirements for the documentation and usage of maintenance chemicals for once through noncontact cooling water, recirculated cooling water, boiler blowdown water, and air washer water are provided. Several sludge provisions are in the permit, including: the permittee must obtain written approval before any revised disposal of sludge; the permittee must submit information on the amount of sludge produced, the present disposal method; and the permittee must prepare and submit a long-term program for sludge handling and disposal. This proposed long-term program must include a schedule of implementation. The permit contains a compliance schedule for constructing and operating a discharge diffuser before increasing manufacturing, and submitting a closure plan for a new wastewater treatment system.

Effective Date: 01/01/92 Expiration Date: 06/30/93 Abstract Date: 06/02/93

Facility Name: Allied Fibers, Columbia Plant | Permit Number: SC0003557

Facility Description: Manufacturer of nylon resin and nylon fiber | SIC Code: 2824

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	-	-

Abstract Information:
Partial; Outfalls 001 and 002 (representing Outfall 003).

Outfall: 001 | Receiving Water: Saluda River | Treatment:

Amount/Components:
0.567 MGD process wastewater, contaminated storm water, contact cooling water, boiler blowdown, sanitary wastewater, and sludge press back flush.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	0.094000 lb/d N/A	0.242000 lb/d N/A		1/year	grab
1,1,2-Trichloroethane	0.094000 lb/d N/A	0.242000 lb/d N/A		1/year	grab
1,1-Dichloroethane	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	grab
1,1-Dichloroethylene	0.072000 lb/d N/A	0.112000 lb/d N/A		1/year	grab
1,2,4-Trichlorobenzene	0.305000 lb/d N/A	0.627000 lb/d N/A		1/year	24hr fw composite
1,2-Dichlorobenzene	0.345000 lb/d N/A	0.730000 lb/d N/A		1/year	24hr fw composite
1,2-Dichloroethane	0.305000 lb/d N/A	0.946000 lb/d N/A		1/year	grab
1,2-Dichloropropane	0.686000 lb/d N/A	1.031000 lb/d N/A		1/year	grab
1,2-Trans-Dichloroethylene	0.094000 lb/d N/A	0.242000 lb/d N/A		1/year	grab
1,3-Dichlorobenzene	0.139000 lb/d N/A	0.197000 lb/d N/A		1/year	24hr fw composite
1,4-Dichlorobenzene	0.067000 lb/d N/A	0.125000 lb/d N/A		1/year	24hr fw composite
2,4-Dichlorophenol	0.175000 lb/d N/A	0.502000 lb/d N/A		1/year	24hr fw composite
2,4-Dimethylphenol	0.081000 lb/d N/A	0.161000 lb/d N/A		1/year	24hr fw composite
2,4-Dinitrophenol	0.318000 lb/d N/A	0.551000 lb/d N/A		1/year	24hr fw composite
2,4-Dinitrotoluene	0.506000 lb/d N/A	1.277000 lb/d N/A		1/year	24hr fw composite
2,6-Dinitrotoluene	1.143000 lb/d N/A	2.872000 lb/d N/A		1/year	24hr fw composite
2-Chlorophenol	0.139000 lb/d N/A	0.439000 lb/d N/A		1/year	24hr fw composite
2-Nitrophenol	0.184000 lb/d N/A	0.309000 lb/d N/A		1/year	24hr fw composite

Facility Name: Allied Fibers, Columbia Plant | Permit Number: SC0003557

Facility Description: Manufacturer of nylon resin and nylon fiber | SIC Code: 2824

3,4-Benzofluoranthene	0.103000 lb/d N/A	0.273000 lb/d N/A		1/year	24hr fw composite
4,6-Dinitro-o-cresol	0.350000 lb/d N/A	1.241000 lb/d N/A		1/year	24hr fw composite
4-Nitrophenol	0.323000 lb/d N/A	0.556000 lb/d N/A		1/year	24hr fw composite
Acenaphthene	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
Acenaphthylene	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
Acrylonitrile	0.430000 lb/d N/A	1.084000 lb/d N/A		1/year	grab
Acute WET	N/A N/A	N/A Report	See below	1/month	24hr composite
Anthracene	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
Benzene	0.166000 lb/d N/A	0.609000 lb/d N/A		1/year	grab
Benzo (a) anthracene	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
Benzo (a) pyrene	0.103000 lb/d N/A	0.273000 lb/d N/A		1/year	24hr fw composite
Benzo (k) fluoranthane	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
Bis (2-ethylhexyl) phthalate	0.462000 lb/d N/A	1.250000 lb/d N/A		1/year	24hr fw composite
BOD5	103.000000 lb/d N/A	269.000000 lb/d N/A		3/week	24hr fw composite
Carbon tetrachloride	0.081000 lb/d N/A	0.170000 lb/d N/A		1/year	grab
Chlorobenzene	0.067000 lb/d N/A	0.125000 lb/d N/A		1/year	grab
Chloroethane	0.466000 lb/d N/A	1.201000 lb/d N/A		1/year	grab
Chloroform	0.094000 lb/d N/A	0.206000 lb/d N/A		1/year	grab
Chrysene	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
Di-n-butyl phthalate	0.121000 lb/d N/A	0.255000 lb/d N/A		1/year	24hr fw composite
Diethyl phthalate	0.363000 lb/d N/A	0.910000 lb/d N/A		1/year	24hr fw composite
Dimethyl phthalate	0.085000 lb/d N/A	0.211000 lb/d N/A		1/year	24hr fw composite
DO	N/A Report	N/A Report	5.0 mg/l min.	1/week	grab
Ethylbenzene	0.143000 lb/d N/A	0.484000 lb/d N/A		1/year	grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	1/week	grab

Facility Name: Allied Fibers, Columbia Plant — Permit Number: SC0003557

Facility Description: Manufacturer of nylon resin and nylon fiber — SIC Code: 2824

Flow	N/A Report MGD	N/A Report MGD		1/day	continuous
Fluoranthene	0.112000 lb/d N/A	0.305000 lb/d N/A		1/year	24hr fw composite
Fluorene	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
Hexachlorobenzene	0.067000 lb/d N/A	0.125000 lb/d N/A		1/year	24hr fw composite
Hexachlorobutadiene	0.090000 lb/d N/A	0.220000 lb/d N/A		1/year	24hr fw composite
Hexachloroethane	0.094000 lb/d N/A	0.242000 lb/d N/A		1/year	24hr fw composite
Methyl chloride	0.385000 lb/d N/A	0.851000 lb/d N/A		1/year	grab
Methylene chloride	0.179000 lb/d N/A	0.399000 lb/d N/A		1/year	24hr fw composite
Naphthalene	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
NH3-N	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Nitrobenzene	0.121000 lb/d N/A	0.305000 lb/d N/A		1/year	24hr fw composite
O&G	N/A 42.000000 lb/d	N/A 63.000000 lb/d		1/month	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	continuous	record
Phenanthrene	0.099000 lb/d N/A	0.264000 lb/d N/A		1/year	24hr fw composite
Phenol	0.067000 lb/d N/A	0.117000 lb/d N/A		1/year	24hr fw composite
Pyrene	0.122000 lb/d N/A	0.300000 lb/d N/A		1/year	24hr fw composite
Temp.	N/A N/A	N/A 92.000000 F		1/day	continuous
Tetrachloroethylene	0.099000 lb/d N/A	0.251000 lb/d N/A		1/year	grab
Toluene	0.117000 lb/d N/A	0.359000 lb/d N/A		1/year	grab
TRC	N/A 0.500000 mg/l	N/A 1.000000 mg/l		1/week	grab
Trichloroethylene	0.094000 lb/d N/A	0.242000 lb/d N/A		1/year	grab
TSS	179.000000 lb/d N/A	540.000000 lb/d N/A		3/week	24hr fw composite
Vinyl chloride	0.466000 lb/d N/A	1.201000 lb/d N/A		1/year	grab

Limitations/Monitoring Basis:

The permit includes limits for excursions from the pH range when measured continuously as follows: the total time the pH values are outside the required range must not exceed 7 hours and 26 minutes in any calendar month,and no individual excursion from the range of pH values is allowed to exceed 60 minutes. Acute toxicity testing is required based on State regulations and is to be conducted as 48 hour static tests following EPA and State guidance documents. The toxicity tests are to be performed using a control and one dilution with one test organism. The BOD5 and TSS limits, as well as the limits on the organics are based on ELGs in 40 CFR Parts 414 and 416. The flow

Facility Name: Allied Fibers, Columbia Plant | **Permit Number:** SC0003557

Facility Description: Manufacturer of nylon resin and nylon fiber | **SIC Code:** 2824

monitoring and limitations for temp., O&G, and pH were continued from the existing permit. The DO, NH3-N, FC and TRC limits were based on WQ considerations and recommendations of the State's Wasteload Allocation Section. The temp. limit is based on State regulations and a letter cited in the rationale.

Outfall: 002 | **Receiving Water:** Kinley Creek | **Treatment:** Not specified.

Amount/Components:
21.84 MGD of noncontact cooling water and storm water.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
DO	N/A N/A	N/A Report	5.0 mg/l min.	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		1/day	continuous
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	continuous	record
Temp.	N/A N/A	N/A 90.000000 F		1/day	continuous

Limitations/Monitoring Basis:
The Limits and Monitoring Conditions were continued from the previous permit.

Special Conditions Basis:
The permittee is required to maintain a BMP plan to identify and control the discharge of significant amounts of substances specified in 40 CFR Parts 117 and 122. Twelve consecutive months of acceptable toxicity testing may result in reduction of frequency to quarterly testing. After 12 months of "passed" toxicity testing results the permitting authority may impose a limitation. The permittee is required to maintain documentation onsiteconcerning the use of maintenance chemicals for once through noncontact cooling water, recirculated cooling water, boiler blowdown water, and air washer water.

Effective Date: 12/01/90 **Expiration Date:** 09/30/94 **Abstract Date:** 06/02/93

Facility Name: Homestake Mining Company | Permit Number: SD0000043

Facility Description: Gold mining operation | SIC Code: 1041

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	√	√	√	√

Abstract Information:
Complete; Outfalls 001 and 002.

Outfall: 001 | Receiving Water: Gold Run Cr. to Whitewood Cr. | Treatment: Not discussed.

Amount/Components:
3.6 MGD/All discharges from wastewater treatment facility

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Ag (TR)	N/A 0.035000 mg/l	N/A 0.061000 mg/l		1/week	24hr fw composite
As (TR)	N/A 0.335000 mg/l	N/A 0.586000 mg/l		1/week	24hr fw composite
Cd (TR)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/quarter	24hr fw composite
CN (WAD)	N/A 0.127000 mg/l	N/A 0.222000 mg/l		1/week	24hr fw composite
Cr (TR)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Cu (TR)	N/A 0.130000 mg/l	N/A 0.227000 mg/l		1/week	24hr fw composite
Flow	N/A 2500.000000 gpm	N/A N/A	3600 gpm daily avg.	1/day	instantaneous
Hardness	N/A Report mg/l	N/A Report mg/l		1/week	24hr fw composite
Hg (TR)	N/A 0.001300 mg/l	N/A 0.002300 mg/l		1/week	24hr fw composite
NH3-N	N/A N/A	N/A N/A	Seasonal; see below	1/day	24hr fw composite
Ni (TR)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite
Pb (TR)	N/A 0.115000 mg/l	N/A 0.201000 mg/l		1/week	24hr fw composite
pH	N/A N/A	N/A N/A	Seasonal; see below	1/day	instantaneous
Temp.	N/A N/A	N/A 75.000000 F	Variable; see below	1/day	instantaneous
TSS	N/A 10.000000 mg/l	N/A 30.000000 mg/l		1/day	24hr fw composite
Zn (TR)	N/A Report mg/l	N/A Report mg/l		1/month	24hr fw composite

Limitations/Monitoring Basis:
The TSS limit is based on BPJ and is intended to prevent WQS exceedances in Whitewood Creek. The pH limits are established as not less than 6.5 su nor greater than 8.8 su from Oct. 1 through Apr. 30, and not less than 6.5su nor greater than 8.3 su from May 1 through Sept. 30. In addition, if the effluent pH violates these limits, instream

Facility Name: Homestake Mining Company | Permit Number: SD0000043

Facility Description: Gold mining operation | SIC Code: 1041

monitoring is required, and the pH of the effluent must not exceed the ambient pH of the water. The pH limits are carried over from the previous permit and are intended to prevent WQS exceedances in Whitewood Creek. The flow limits were negotiated with the facility. Temp. limits are carries over fromthe previous permit; if the temp. is greater than 75 degrees F, the temp. of Whitewood Creek must be monitored. The discharge must not cause a temp. above ambient levels in Whitewood Creek. The temp. limits are developed to ensure that specific instream temp. is maintained in the receiving stream and other affected downstream waters. Limits for NH3-N limits are seasonal and are based on site-specific WQ criteria developed by theState for this stream. The limits are as follows: from Jan. 1-Mar. 31, 4.1 mg/l weekly avg. and 7.2 mg/l daily max., from Apr. 1-Jun. 30, 1.5 mg/l weekly avg. and 2.6 mg/l daily max.; from Jul. 1-Sept. 30, 1.0 mg/l weekly avg. and 1.7 mg/l daily max.; and from Oct. 1-Dec. 31, 2.6 mg/l weekly avg. and 4.5 mg/l daily max. The State considered the dilution ratios 55/45 cfs, temp., and pH in developing the NH3-N limits. The limits for metal and CN were developed based on site specific WQ criteria for the receiving stream. A simple mass balance approach was used to calculate the limits based on average monthly discharge rates of 5.5 cfs and 4.5 cfs for the 7Q25 stream flow. A chronic WET limit of no toxicity must be met by 1/1/94. This time frame has been determined to be the maximum allowable as per the permit writers judgement. Chronic WET testing must be conducted in accordance with EPA guidance manuals and regional policy; 55% effluent is specified, based on stream flow. Retesting must be conducted within 4 weeks where toxicity is evident. Monitoring requirements may be reduced wherenal metals and for hardness. These requirements are established to monitor possible impacts to water quality and are based on the permit writer's judgement.

Outfall: 002 | Receiving Water: Gold Run Cr. to Whitewood Cr. | Treatment: Not discussed.

Amount/Components:
Unspecified amount of non-contact cooling water from air compressors

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A N/A		1/month	instantaneous
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/quarter	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	instantaneous
Temp.	N/A N/A	N/A N/A	Shall not exceed 75 deg F	1/month	grab
TSS	N/A 30.000000 mg/l	N/A N/A		1/month	grab

Limitations/Monitoring Basis:
The limits for TSS, pH and O&G are based on the previous permit. With the exception of O&G, the basis of these limits was not discussed. The O&G limit is based on State WQS, and has two components; the numeric limit above, and a narrative requirement prohibiting discharges that result in a visible sheen on the surface of the stream. Visual monitoring for the O&G sheen is required 1/month. If, however, a visible sheen is observed, a grab sample must be obtained and analyzed according to prescribed procedures. Monitoring conditions are consistent with the previous permit.

Special Conditions Basis:
In addition to the special monitoring requirements described above, the permit contains several other special conditions. A requirement for monthly monitoring of metals and CN at two locations in the receiving stream is specified to evaluate the impact of the discharges. If results of chronic WET testing indicate toxicity, a TRE will be required in accordance with specific protocols established in the permit. A requirement is included for daily inspection of the wastewater treatment facility. The inspection will include an evaluation of the discharge or potential for discharge, and operation and maintenance activities. A log of all activities must be maintained. The facility must monthly report the quantity of phosphoric acid, sulfuric acid, and soda ash used. Other than described above, the basis of these special conditions was not provided.

Effective Date: 10/01/92 | Expiration Date: 09/30/96 | Abstract Date: 04/30/93

Facility Name: U.S. Airforce, Ellsworth Base | Permit Number: SD0000281

Facility Description: Maintenance of airplanes and equipment, misc. industrial processes | SIC Code: 9711

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	√	-	√	√

Abstract Information:
Partial; Outfalls 001 (representing 002 and 003) and 005.

Outfall: 001 | Receiving Water: Unamed trib. to Box Elder | Treatment: API

Amount/Components:
Unspecified amount of treated runoff from southwest area of airfield

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A N/A	See below	once	grab
BETX	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
BOD5	N/A Report mg/l	N/A Report mg/l	See below	1/month	grab
Naphthalene	N/A Report mg/l	N/A Report mg/l		1/quarter	grab
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/month	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/month	grab
Surfactants	N/A N/A	N/A 1.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:
The limits for surfactants, O&G and pH are carried over from the previous permit. The surfactant limit is BPJ-based in accordance with the historical use of surfactants as an indicator of detergents in the effluent. TheO&G and pH limits are based on State WQS. The permit also contains a narrative limit of no oil sheen; visual monitoring for a "visible sheen" is required 1/week. BOD5 monitoring requirements are set forth due to the potential discharge of deicing agents. The monitoring requirements for BETX and naphthalene are included to provide indicators of effluent contamination from deicing agents, jet fuel, deisel fuel, and "MOGAS" and to provide a basis for future limitations. For BETX, analytical methods are specified. For BETX and naphtalene monitoring, quarterly samples are required in January, April, July and October, unless no discharge occurs in those months. If there is no discharge, then monitoring for the quarter will be required during a time when a discharge is occuring. The monthly BOD5 sampling is required only from Nov. 1 through Apr. 30 (winter). Acute WET testing is required once during the summer of 1991; testing must be conducted in accordance with specific EPA protocols and reported in accordance with specific Region 8 protocols. The pH, O&G, and surfactants monitoring requirements are consistent with the past permit.

Outfall: 005 | Receiving Water: Unnamed tributary-Box Elder Cr | Treatment: API, Scr, Comm, Grit, PC, TF, S

Amount/Components:
1.0 MGD of sewage treatment plant effluent.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A N/A	See below	1/quarter	6hr fw composite
BOD5	N/A 30.000000 mg/l	N/A N/A	45 mg/l weekly avg.	3/week	6hr fw composite
FC	N/A 1000.000000	N/A 2000.000000	Units: #/100 ml	3/week	grab

Facility Name: U.S. Airforce, Ellsworth Base | Permit Number: SD0000281

Facility Description: Maintenance of airplanes and equipment, misc. industrial processes | SIC Code: 9711

Flow	N/A 999.000000 MGD	N/A 999.000000 MGD		continuous	record
O&G	N/A N/A	N/A 10.000000 mg/l	See below	1/month	grab
pH	N/A N/A	N/A N/A	6.0 su-9.0 su; see below	continuous	record
TSS	N/A 30.000000 mg/l	N/A N/A	45 mg/l weekly avg.	3/week	6hr fw composite

Limitations/Monitoring Basis:
The BOD5 and TSS limits are BPJ-based and are derived in accordance with secondary treatment standards required for POTWs; these limits are consistent with the previous permit. The FC limits are also BPJ-based and are included to protect public health since the effluent flows through a residential area; analytical protocal is specified. The pH and O&G limits are based on State WQS. The permit also contains a narrative limit of no resulting oil sheen; visual monitoring is required 5/week. A reasonable potential for toxicity has been demonstrated by past WET data, the size of the discharge and the contituents. Acute WET testing must be conducted in accordance with specific EPA protocals and reported with specific Region 8 protocals. Retesting within 4 weeks is required where toxicity is evident; 1/month is required if 2 consecutive tests show toxicity. Monitoring requirements may be reduced where no toxicity is found. In additon, influent samples will be taken and analyzed for BOD5, TSS and pH at the same frequency as required for effluent monitoring. Until a pH meter is installed (1/31/91), pH sampling may be performed by collecting daily grabs. BOD5, TSS, and FC monitoring is increased to a 3/week frequency to be consistent with other WWTPs of this size. The remaining monitoring conditions are consistent with the past permit.

Special Conditions Basis:
In addition to the special monitoring requirements noted above, there are five special conditions, as follows: (1) At outfall 005, the influent, effluent and sludge of the sewage treatment plant must be sampled by 72hr fw composite and analyzed semi-annually for As (T), Cd (T), Cr (T), Cu (T), Pb (T), Hg (T), Ni (T), Ag (T), and Zn (T); (2)Treatment plant influent (Outfall 005) must be evaluated annually for all EPA toxic pollutants; (3) The permittee must inspect the treatment systems for outfalls 001 through 003 at least two times per month and the discharge status and operation and maintenance activities must be recorded in a log; (4) A TRE must be conducted if determined necessary by EPA; the format and content are specified; and (5) The permittee must develop and implement and Industrial Waste Management program to control the discharges of non-domestic wastes from the sewage treatment plant; the details of what the program must include are provided. The basis of these conditions was not described.

Effective Date: 10/01/90 | Expiration Date: 09/30/95 | Abstract Date: 04/30/93

Facility Name: T & R Electric Supply Co.,Inc. Permit Number: SD0025437

Facility Description: Rebuilding and reconditioning electric transformers SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	-	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	√	-	√

Abstract Information:
Complete: Outfall 001

Outfall: 001 | Receiving Water: Unnamed trib. to Bachelor Cr. | Treatment: Sed

Amount/Components:
Unspecified amount of treated storm water runoff from transformer storage and rebuilding areas

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD	See below	See below	totalizer
O&G	N/A N/A	N/A 10.000000 mg/l	See below	See below	24hr fw composite
PCBs (T)	N/A 0.010000 mg/l	N/A 0.015000 mg/l	See below	See below	24hr fw composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	See below	grab
TSS	N/A N/A	N/A 45.000000 mg/l	See below	See below	24hr fw composite

Limitations/Monitoring Basis:
Two seperate levels of PCB limits are included in the permit to allow the facility time to meet significantly more restrictive requirements. The limits above must be met from permit issuance through 5/31/93; the first level PCB limits are BPJ-based and are carried over from the previous permit. The second level PCB limits are effective beginning 6/1/93, and include a variable daily max. limit, and an inst. max. limit of 2.0 ug/l; the second level PCB limits are WQ-based and incorporate both effluent and instream monitoring by considering the upstream PCB concentration and the relative flows of the receiving stream and effluent. A formula to calculate thelimit at any given time is provided in the permit. Samples must be collected at the beginning, middle, and end of the discharge event; for discharges with durations greater than 1 week, samples must be collected 1/week. TSS limits are carried over from the previous permit, and are based on EPA policy for sedimentation basins. In the event of a 10 yr storm (4 inches of precipitation), the TSS limit will be suspended during the storm event. The O&G limit was also carried over from the previous permit and is based on State WQS. In addition, a narrative requirement prohibits a visible sheen or floating oil. Because the treatment system has no flow control mechanism, the permit requires monitoring and reporting for each discharge event. The basis of the pH limit is not discussed. Samples must be collected at the beginning, middle, and end of the discharge event; for discharges with durations greater than 1 week, samples must be collected 1/week.

Special Conditions Basis:
A practical quantitation level of 0.5 ug/l is established for PCBs based on Colorado's proposed organic standards. Other special conditions include that the permittee must develop a QA/QC plan for its PCB sampling analysis programs; and the permittee must inspect its treatment facility in accordance with the schedule established in the permit and maintain a log of all inspection and monitoring activities.

Effective Date: 04/01/93 Expiration Date: 12/31/97 Abstract Date: 04/28/93

Facility Name: GE, Selmer | Permit Number: TN0000353

Facility Description: Fabricates and assembles power distribution busway, switchboard manufa | SIC Code: 3613

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfalls 001, 01A, and 002.

Outfall: 001 | Receiving Water: Cypress Creek | Treatment: ChOx/Pt, Sed, Neut, Fil

Amount/Components:
0.17 MGD of industrial wastewater from electroplating lines not using cyanide and those using cyanide, metal prep line and burn off oven

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Ag	N/A N/A	N/A 0.030000 mg/l		1/week	24hr fw composite
Cd	N/A N/A	N/A 0.150000 mgl		1/quarter	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/quarter	24hr fw composite
Cr	N/A N/A	N/A 1.000000 mg/l		1/quarter	24hr fw composite
Cu	N/A 0.750000 mg/l	N/A 1.130000 mg/l		1/week	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	instantaneous
NH3	N/A Report mg/l	N/A Report mg/l		1/week	grab
Ni	N/A N/A	N/A 3.980000 mg/l		1/quarter	24hr fw composite
Pb	N/A 0.120000 mg/l	N/A 0.690000 mg/l		1/week	24hr fw composite
pH	N/A Report	N/A Report	Between 6.0 su and 9.0 su	1/week	grab
TRC	N/A N/A	N/A 0.540000 mg/l		1/week	grab
TTOs	N/A N/A	N/A 2.130000 mg/l	See below	1/quarter	24hr fw composite
Zn	N/A N/A	N/A 1.000000 mg/l		1/quarter	24hr fw composite

Limitations/Monitoring Basis:
Previous permit limits are retained for Cd, Pb, ph, and Zn, and the Cr daily max. The previous permit limits for the daily max. Pb and both Ni limits are consistent with the ELG-based limits (40 CFR Part 433); TTO limits are also ELG-based. The Cr(T) and Zn(T) monthly avg. limitations were dropped because the permittee has been meeting the permit limits. Limits for Cu, Ag, and TRC are based on WQSs; a compliance schedule has been included for these parameters and Chronic WET because the limits are more stringent than in the past. Where parameters remain of concern, the past permit monitoring conditions of 1/week were retained. Where they are not of concern, monitoring conditions have been reduced to 1/quarter. The permittee is required to initiate a chronic toxicity testing program within 90 days of permit effective date. Chronic WET testing must be conducted to determine the LC50 and NOEL; testing is required in accordance with EPA guidance manual procedures. Limits are set forth based on instream dilution and require that the LC50 be greater than 10.55% effluent and the NOEL be greater than 3.17% effluent. Monitoring may be reduced to 1/6 months if no lethality is demonstrated. TTO limits and monitoring may be deleted if the certification procedure in 40 CFR 433.12 is followed. NH3 and BOD5 were evaluated for regulation because of elevated levels as reported on the Form 2C application. BOD5 was found to have no affect on the receiving stream based on modeling studies; NH3 monitoring will be required based on the monitoring results. Flow monitoring is

Facility Name: GE, Selmer | Permit Number: TN0000353

Facility Description: Fabricates and assembles power distribution busway, switchboard manufa | SIC Code: 3613

specified to allow for the quantification of pollutant loads. Ammonia monitoring may be deleted in one year.

Outfall: 002 | Receiving Water: Cypress Creek | Treatment: None

Amount/Components:
0.02 MGD of noncontact cooling water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/week	instantaneous
pH	N/A Report	N/A Report	Between 6.0 su and 9 .0 su	1/week	grab
Temp.	N/A Report	N/A Report	See below	1/week	grab
TRC	N/A N/A	N/A 0.540000 mg/l		1/week	grab

Limitations/Monitoring Basis:
The limit for TRC is WQ-based as calculated by a mass balance using EPA's instream protection value of 0.019 mg/l TRC for fish and aquatic life. The pH limitations and monitoring requirements and the flow monitoring conditions were retained from the previous permit. The discharge must not cause the temperature change in Cypress Creek to exceed 3 degrees C relative to an upstream control point; the discharge must not cause the temperatureof the creek to exceed 30.5 degrees C; and the maximum rate of temperature change in the creek due to the discharge must not exceed 2 degrees C per hour.

Outfall: 01A | Receiving Water: Internal via Outfall 001 | Treatment: See Outfall 001

Amount/Components:
Average 0.117 MGD consisting of wastewater from electroplating line using cyanide

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
CN (T)	N/A 0.650000 mg/l	N/A 1.200000 mg/l		1/week	grab

Limitations/Monitoring Basis:
The CN (T) limitations are based on ELGs in 40 CFR Part 433 because they are more stringent than the WQSs. Measurements must be taken immediately after treatment and before dilution with other streams, consistent with ELGs.

Special Conditions Basis:
Schedules of compliance with Cu, Ag, TRC, and WET limits are specified which require the submission of plans within 3 months, beginning construction with in 6 months, and compliance within 18 months; those compliance schedules are provided because new limits are much more stringent than those in the previous permit. The compliance deadlline was, according to the state, the most expeditious date by which compliance could be achieved and coincides with the date by which the facility plans to begin routing their wastewater to the sanitary sewer. The permit also specifies that signs containing specific outfall identification information must be installed.

Effective Date: 09/30/92 | Expiration Date: 04/01/94 | Abstract Date: 05/07/93

Facility Name: Erwin National Fish Hatchery | **Permit Number:** TN0004677

Facility Description: Fish farm operation, rearing station for trout | **SIC Code:** 0921

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfall 001.

Outfall: 001 | **Receiving Water:** Tate Spring Branch | **Treatment:** None specified.

Amount/Components:
1.73 MGD of industrial wastewater discharge from fish farm

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .5 su	1/month	grab
SS	N/A Report mg/l	N/A Report mg/l		1/month	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/month	grab

Limitations/Monitoring Basis:
Previous permit limits and monitoring conditions have been retained. The limit for pH has become more stringent based on State WQSs.

Special Conditions Basis:
Within 90 days of permit issuance, the permittee is required to submit a report containing amounts and frequencies of application of biocides or other chemical agents. This requirement is retained from the previous permit. Additionally the report must include any water quality parameter monitoring. Pertinent data must also be reported on a quarterly basis. The permit also specifies that signs containing specific outfall identificationinformation must be installed. Other than noted above, the basis of these special conditions was not described.

Effective Date: 06/30/92 | **Expiration Date:** 06/29/97 | **Abstract Date:** 05/07/93

Facility Name: TVA, Raccoon Mt Pumped-Storage | Permit Number: TN0031631

Facility Description: Hydroelectric power generating plant, capacity 1530 MW | SIC Code: 4911

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	-	-	√	√

Abstract Information:
Partial; Outfall 003 is the only one of four outfalls with limitations.

Outfall: 003 | Receiving Water: Nickajack Reservoir | Treatment: API

Amount/Components:
Average 1.584 MGD from station sump (oil interceptor and transformer cooling wastewater) and 0.0404 MGD from dewatering of draft tubes and tunnel

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report MGD	N/A N/A		1/quarter	estimate
O&G	N/A 15.000000 mg/l	N/A 20.000000 mg/l		1/quarter	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/quarter	grab

Limitations/Monitoring Basis:
Limts are retained from the previous permit based on anti-backsliding and BPJ of the impacts of these discharges on the receiving stream. The state has identified potential for leaks and spills and cites a NOV concerningoil and foam discharges.

Special Conditions Basis:
The permittee is required to develop and implement a BMP plan no later than one year after the effective date of the permit; the plan must include baseline measure as well as specific measures for the environmentally sound control of Zebra mussels. The BMP plan is being required due to concerns about the impacts of mussel control plans. The BMP plan and its submittal date were based on an agreement with the facility. The permittee is also required to develop and implement a SWPPP no later than one year after the permit effective date. This plan is being required due to concerns of PCBs and oil and grease contamination from transformer yards and equipment storage. The permit has the requirement to monitor for PCBs at least 1/year in storm water discharges from areas with PCB-containing equipment. This frequency has been determined to be appropriate based on the permit writers judgement of the potential impacts that PCBs may have on receiving streams.

Effective Date: 09/30/92 | Expiration Date: 09/29/97 | Abstract Date: 05/07/93

Facility Name: ALCOA North Plant | **Permit Number:** TN0067199

Facility Description: Aluminum fabrication with hot and cold rolling | **SIC Code:** 3353

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	-	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	√	-	√

Abstract Information:
Partial; Outfalls 001 (001A and 001B for abstracting purposes), 01A, 01N (representing 01S and 01E) and 007.

Outfall: 001A | **Receiving Water:** Duncan Creek | **Treatment:** API + Sed

Amount/Components:
1.0 MGD of cooling water blowdown, boiler blowdown, softener backwash, once through noncontact cooling water and plant site surface runoff.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
CBOD5	N/A 32.500000 mg/l	N/A 52.000000 mg/l		1/week	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/2 months	24hr fw composite
DO	N/A N/A	N/A N/A	5.0 mg/l min	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
NH3-N	N/A 0.760000 mg/l	N/A 1.500000 mg/l		1/week	grab
O&G	N/A Report mg/l	N/A Report mg/l		1/week	grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 8.0 su	continuous	recorder
TRC	N/A 0.011000 mg/l	N/A 0.019000 mg/l		5/week	grab

Limitations/Monitoring Basis:
Limits above apply from May 1 through Oct. 31. CBOD5, NH3, and DO limitations are seasonal WQ-based limits as calculated from State modeling of the receiving stream. CBOD5 replaces BOD5 as a limited parameter in accordance with revised modelling. TRC and pH limits are WQ-based; special conditions apply to TRC and pH as discussed below. TRC monitoring is set at 5/week because of difficulties posed by weekend sampling; this frequency is deemed reasonable since fluctuations are not expected in production or operations. TSS, CN, tetrachloroethylene, and Cr limits and monitoring requirements are discontinued because these parameters are either not containedin wastewaters, or not present or present in in low levels in the discharge; TSS and Zn requirements are discontinued because these parameters are categorical and are monitored at the internal Outfall 01A. The O&G limit has been discontinued (monitoring is still required) because ELGs are being applied at 01A. Chronic WET requirements are described at Outfall 007. Other than described above, monitoring conditions are based on the previous permit.

Outfall: 001B | **Receiving Water:** Duncan Creek | **Treatment:** API + Sed

Amount/Components:
1.0 MGD of cooling water blowdown, boiler blowdown, softener backwash, once through noncontact cooling water and plant site surface runoff.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
CBOD5	N/A 67.500000 mg/l	N/A 108.000000 mg/l		1/week	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/2 months	24hr fw composite

Facility Name: ALCOA North Plant | Permit Number: TN0067199

Facility Description: Aluminum fabrication with hot and cold rolling | SIC Code: 3353

DO	N/A N/A	N/A N/A	5.0 mg/l min	1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
NH3-N	N/A 1.100000 mg/l	N/A 2.200000 mg/l		1/week	grab
O&G	N/A Report mg/l	N/A Report mg/l		1/week	grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .0 su	continuous	recorder
TRC	N/A 0.011000 mg/l	N/A 0.019000 mg/l		5/week	grab

Limitations/Monitoring Basis:
These limitations apply from November 1 through April 30. See limitations/monitoring basis for Outfall 001A.

Outfall: 007 | Receiving Water: Ditch to Russell Branch | Treatment: Not specified.

Amount/Components:
Unspecified amount of landfill leachate and storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Chronic WET	N/A N/A	N/A N/A	See below	1/2 months	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
NH3-N	N/A 0.760000 mg/l	N/A 1.500000 mg/l	Seasonal; see below	1/week	grab
O&G	N/A N/A	N/A 20.000000 mg/l		1/week	grab
PCBs (T)	N/A 0.000001 mg/l	N/A N/A	Detection level 0.5 ug/l	1/week	grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .0 su	continuous	recorder

Limitations/Monitoring Basis:
NH3 limits are seasonal with the above limits being applicable from May 1 through Oct. 31. From Nov. 1 through Apr. 30, limits are 1.1 mg/l monthly avg. and 2.2 mg/l daily max. These limits are established based on state modelling of the receiving stream. PCBs and pH limits are based on State WQS. The O&G limit is based on the past permit. Chronic WET testing must be conducted to determine the LC50 and NOEL; testing is required in accordance with EPA guidance manual procedures. Limits of no toxicity are based on no instream dilution or 100% effluent. Monitoring may be reduced to 1/6 months after 1 year if no lethality is demonstrated.

Outfall: 01A | Receiving Water: Internal to Outfall 001 | Treatment: None specified.

Amount/Components:
Unspecified amount of industrial wastewater from continuous sheet casting spent lubricant and solution heat treatment contact cooling water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al	N/A Report mg/l	N/A Report mg/l		1/week	grab
COD	N/A Report mg/l	N/A Report mg/l		1/week	grab

Facility Name: ALCOA North Plant | Permit Number: TN0067199

Facility Description: Aluminum fabrication with hot and cold rolling | SIC Code: 3353

Fl	N/A Report mg/l	N/A Report mg/l		1/week	grab
Flow	N/A Report MGD	N/A Report MGD		continuous	recorder
NH3	N/A Report mg/l	N/A Report mg/l		1/week	grab
O&G	N/A Report mg/l	N/A Report mg/l		1/week	grab
Pb	N/A Report mg/l	N/A Report mg/l		1/week	grab
pH	N/A Report su	N/A Report su		1/week	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/week	grab
Zn	N/A Report mg/l	N/A Report mg/l		1/week	grab

Limitations/Monitoring Basis:
The State has determined that aluminum forming ELGs do not apply; rather, nonferrous metals manufacturing (40 CFR Part 421; Subpart C) are more appropriate. However, application of limitations were determined to be inappropriate because the "discharge is cooling tower mist condensate and blowdown water" which are part of recirculation, rather than "process wastewater." Monitoring is set forth for the parameters contained in 40 CFR Part 421.

Outfall: 01N | Receiving Water: Duncan Creek | Treatment: None

Amount/Components:
Unspecified amount of discharges occurring only during certain rainfall events and containing less than 10% of the dry weather flows described for 001

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A N/A	See below	once	grab
BOD5	N/A N/A	N/A Report mg/l	See below	1/month	grab
Flow	N/A N/A	N/A Report MGD	See below	1/month	instantaneous
NH3	N/A N/A	N/A Report mg/l	See below	1/month	grab
O&G	N/A N/A	N/A Report mg/l	See below	1/month	grab
pH	N/A N/A	N/A N/A	Report min. and max. s.u.	1/month	grab
TRC	N/A N/A	N/A Report mg/l	See below	1/month	grab

Limitations/Monitoring Basis:
Samples are to be collected within 30 minutes of initiation of flow during a storm event that is greater than 0.1 inch and that occurs at least 72 hours after any previous storm event of 0.1 inch or greater. The pH analyses are to be performed within 24 hours of sample collection. This is because pH data shows no fluctuations outside the allowable pH range either in the initial or 24hr reading; also cited are high costs of installing equipment, infrequent discharges, and unlikely WQ impacts. Acute WET testing is to be conducted within 90 days of the completion of the outfall monitoring program to establish the LC50 value. The permittee is required to conduct one 48-hr static toxicity test on two appropriate test species on samples of final effluent following a period of at least 2 days of no discharge from the outfalls. If there is no toxicity found from this test, no further testing will be required. No effluent limits are established at this time because this outfall has no dry weather flows; TRC, NH3, and BOD5 monitoring requirements are included because process wastewaster and spills may contaminate the storm water. Monitoring requirements are established consistent with State storm water regulations and is required during periods of continuous discharge. The basis of the remaining monitoring conditions was not described.

Facility Name: ALCOA North Plant

Permit Number: TN0067199

Facility Description: Aluminum fabrication with hot and cold rolling

SIC Code: 3353

Special Conditions Basis:

The permit contains compliance schedules for Outfall 001, including a dechlorination evaluation study, due 6 months from the permit effective date, and system modification and TRC compliance within 9 months of State approval of the study. Compliance with DO limits at 001 are established to coincide with the schedule for dechlorination. An ammonia reduction study is due 6 months from the permit effective date, with an engineering report due 6 months after State approval, and installation/modification and NH3 due 12 months from written approval. For Outfalls 001 and 007, the permitte is required to install equipment within 6 months to meet new pH limitations. For outfalls 01N, 01S, and 01E, the permittee is required to install monitoring equipment within 6 months, and for outfall 01A, within 12 months. The permit contains a compliance schedule for a landfill remedial alternatives and feasibility study and construction of related treatment facilities. A past failure of the NOEL at 007 was attributed to landfill leachate; therfore, compliance with chronic WET limits at 007 are set to coincides with completion of the landfill study (09/01/97). The permittee is required to develop a BMP plan within 9 months and implement it within 2 months after plan submittal; a semi-annual report is also required. Detection levels of 0.5 ug/l and 0.1 mg/l are set out for PCBs at 007 and TRC at 001, respectively; analyses quantifying to these levels are considered compliant. The permit also specifies that signs containing specific outfall identification information must be installed. Other than set forth above, the basis of these conditions was not described.

Effective Date: 09/30/92

Expiration Date: 09/29/97

Abstract Date: 05/07/93

Facility Name: International Paper Company | Permit Number: TX0000167

Facility Description: Pulp and paper mill | SIC Code: 2611

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	-	-	√	-	√	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	√	-	√	√	-	√	-	√

Abstract Information:
Complete; Outfalls 001 (designated A and B for abstracting purposes) and 101.

Outfall: 001A | Receiving Water: Bakers Slough | Treatment: AL

Amount/Components:
258.05 MGD treated process and power plant wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	Report ug/d Report ppq	Report ug/d Report ppq	MR annual avg.; see below	1/quarter	24hr fw comp
AOX	N/A N/A	Report lb/d Report lb/d	by pre-approved method	1/quarter	24hr fw comp
BOD5	N/A 30.000000 mg/l	N/A 60.000000 mg/l	see below	1/day	24hr fw comp
Chronic WET	N/A N/A	N/A N/A	see below	1/month	grab
Flow	N/A Report MGD	N/A Report MGD	see below	cont.	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
TSS	N/A 60.000000 mg/l	N/A 30.000000 mg/l	23598 lb/d, annual avg.	1/day	24hr fw comp

Limitations/Monitoring Basis:
This outfall, established for abstracting purposes, represents limitations effective through June 4, 1993. Annual avg. limits of 9456 lb/d BOD5 and 23598 lb/d TSS are imposed, as well as a 2378-TCDD annual avg. reporting requirement. The 2,3,7,8-TCDD limit includes equivalents. The annual avg. is to be calculated each month by adding the discharge mass from the preceeding 12 months divided by the number of days of discharge. Limitations are ELG- and WQ-based as incorporated from the past permit in accordance with anti-backsliding; these limitations are consistent with the State permit. Note that 2378-TCDD daily avg. and daily max. limitations were established in the past permit, but reporting only, is required through June 4, 1993. Flow discharge is limited to 10% of the river flow on a daily avg. and daily max. basis (see special conditions). BOD5 exceedances must be recorded daily where river DO concentrations are <5 mg/l. Chronic WET testing using Ceriodaphnia dubia and Pimephales promelas and 5 dilutions is required in accordance with EPA guidance. The basis of the monitoring conditions was not described.

Outfall: 001B | Receiving Water: Bakers Slough | Treatment: AL

Amount/Components:
258.05 MGD treated process and power plant wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
2,3,7,8-TCDD	Report ug/d Report ppq	Report ug/d Report ppq	MR annual avg.; see below	1/quarter	24hr fw comp
AOX	N/A N/A	Report lb/d N/A	by pre-approved method	1/quarter	24hr fw comp
BOD5	N/A 30.000000 mg/l	N/A 60.000000 mg/l	see below	1/day	24hr fw comp
Chronic WET	N/A N/A	N/A N/A	see below	1/month	grab

Facility Name: International Paper Company | Permit Number: TX0000167

Facility Description: Pulp and paper mill | SIC Code: 2611

Flow	N/A Report MGD	N/A Report MGD	see below	cont.	record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
TSS	N/A 60.000000 mg/l	N/A 30.000000 mg/l	23598 lb/d, annual avg.	1/day	24hr fw comp

Limitations/Monitoring Basis:
This outfall established for abstracting purposes represents limitations effective from June 4, 1993 through the expiration date. Annual avg. limits of 9456 lb/d BOD5, 23598 lb/d TSS, and 7320 ug/d 2378-TCDD equivalents are imposed, where the annual avg. is calculated as previously described. As with 001A, limitations are ELG- and WQ-based as incorporporated from the past permit in accordance with anti-backsliding and consistent with the State permit. Note that the 2378-TCDD annual avg. limitation was not established in the past permit and its basis was not described. The remaining monitoring conditions and their basis are the same as described at 001A.

Outfall: 101 | Receiving Water: Internal outfall via 001 | Treatment: AL

Amount/Components:
Unspecified amount of treated process wastewater

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
BOD5	N/A Report mg/l	N/A Report mg/l		3/week	24hr fw comp
Flow	N/A Report MGD	N/A Report MGD		cont.	record
TSS	N/A Report mg/l	N/A Report mg/l		3/week	24hr fw comp

Limitations/Monitoring Basis:
Monitoring requirements are incorporated from the past permit.

Special Conditions Basis:
Storm water runoff (outfalls not identified) must meet limitations of 15 mg/l O&G, 200 mg/l COD, and a pH between 6.0 su and 9.0 su. Sludge monitoring via EPA method 1613 must be conducted within 90 days and 2/year thereafter for the 2378-TCDD equivalents set forth in EPA guidance. The permit contains a 2,3,7,8-TCDD reopener clause, whereby the permit may be reopened to update limits corresponding to changes in State WQSs or other conditions for 2,3,7,8-TCDD. The permit also contains a WLA opener clause to incorporate any changes necessary to comply with the Sulphur River Basin Water Quality Management Plan or with the Texas WQSs. Specific MLs are provided for TCDD equivalents. Stream monitoring 1/day for the daily avg., daily min., and daily max. flow are required using USGS data. Stream monitoring for dialy max. and daily min. DO is also required in accordance with specific locations and procedures. DO and stream flow are to be reported on DMRs. Requirements are specified to develop and submit, within 60 days, a fish tissue monitoring plan. A 1/year monitoring frequency, 3 specific species, and the analysis of 2,3,7,8-TCDD equivalents for 5 adult fish/species are required plan components; the plan must be implemented within 1 year. Other special requirements involve discharge summary reports development and specific testing. The basis for these conditions was not described.

Effective Date: 11/12/91 | Expiration Date: 11/11/96 | Abstract Date: 04/13/93

Facility Name: Texas Eastman Company | Permit Number: TX0000949

Facility Description: Organic chemical manufacturing. | SIC Code: 2869

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	-	-	✓	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	✓	-

Abstract Information:
Partial; 001, 002 (A and B) created for abstract purposes, 003, 004.

Outfall: 001 | Receiving Water: Sabine River | Treatment: Not described.

Amount/Components:
19.6 MGD daily avg. of water intake, and misc low contamination potential plant and storm water runoff discharges.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/day	estimate
pH	N/A N/A	N/A N/A	6.0 su inst. min, 9. 0 su	1/day	grab
TOC	N/A N/A	N/A 50.000000 mg/l		1/day	grab

Limitations/Monitoring Basis:
According to the fact sheet, the bases of the limits were not changed from the previous permit. WET monitoring requirements include reporting endpoints of fecundity, lethality & growth, for Ceriodaphnia dubia and Pimephales promelas in accordance with Method 1000.0 and 1002.0 and several other specifications outlined in the permit. The permit requires accelerated WET testing in the instance of lethality or non-ethal effects at 16% or lesser effluent concentrations. Permit provides WET reporting sheets.

Outfall: 002A | Receiving Water: Sabine River | Treatment: AS

Amount/Components:
Unspecified amount of process, storm water, sanitary sewage, and demineralizer wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw comp
1,1,2-Trichloroethane	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw comp
1,1-Dichloroethane	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw comp
1,1-Dichloroethylene	0.580000 lb/d N/A	0.900000 lb/d N/A		1/year	24hr fw comp
1,2,4-Trichlorobenzene	2.450000 lb/d N/A	5.040000 lb/d N/A		1/year	24hr fw comp
1,2-Dichlorobenzene	2.770000 lb/d N/A	5.870000 lb/d N/A		1/year	24hr fw comp
1,2-Dichloroethane	2.450000 lb/d N/A	7.600000 lb/d N/A		1/year	24hr fw comp
1,2-Dichloropropane	5.510000 lb/d N/A	8.290000 lb/d N/A		1/year	24hr fw comp
1,2-Trans-Dichloroethylene	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw comp

1,3-Dichlorobenzene	1.120000 lb/d N/A	1.590000 lb/d N/A		1/year	24hr fw comp
1,3-Dichloropropene	1.040000 lb/d N/A	1.590000 lb/d N/A		1/year	24 hr fw composite
1,4-Dichlorobenzene	0.540000 lb/d N/A	1.010000 lb/d N/A		1/year	24hr fw comp
2,4-Dichlorophenol	1.410000 lb/d N/A	4.040000 lb/d N/A		1/year	24hr fw comp
2,4-Dimethylphenol	0.650000 lb/d N/A	1.300000 lb/d N/A		1/year	24hr fw comp
2,4-Dinitrophenol	2.560000 lb/d N/A	4.430000 lb/d N/A		1/year	24hr fw composite
2,4-Dinitrotoluene	4.070000 lb/d N/A	10.270000 lb/d N/A		1/year	24hr fw comp
2,6-Dinitrotoluene	9.190000 lb/d N/A	23.090000 lb/d N/A		1/year	24hr fw comp
2-Chlorophenol	1.120000 lb/d N/A	3.530000 lb/d N/A		1/year	24hr fw comp
2-Nitrophenol	1.480000 lb/d N/A	2.490000 lb/d N/A		1/year	24hr fw composite
3,4-Benzofluoranthene	0.830000 lb/d N/A	2.200000 lb/d N/A		1/year	24hr fw composite
4,6-Dinitro-o-cresol	2.810000 lb/d N/A	9.980000 lb/d N/A		1/year	24hr fw composite
4-Nitrophenol	2.590000 lb/d N/A	4.470000 lb/d N/A		1/year	24hr fw composite
Acenaphthene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw comp
Acenaphthylene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Acrylonitrile	3.460000 lb/d N/A	8.720000 lb/d N/A		1/year	24hr fw comp
Anthracene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Benzene	1.330000 lb/d N/A	4.900000 lb/d N/A		1/year	grab
Benzo (a) anthracene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Benzo (a) pyrene	0.830000 lb/d N/A	2.200000 lb/d N/A		1/year	24hr fw composite
Benzo (k) fluoranthane	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Bis (2-ethylhexyl) phthalate	3.710000 lb/d N/A	10.050000 lb/d N/A		1/year	24hr fw composite
Carbon tetrachloride	0.650000 lb/d N/A	1.370000 lb/d N/A		1/year	24hr fw comp
CBOD5	546.000000 lb/d N/A	1429.000000 lb/d N/A	Seasonal; see below	1/day	24hr fw composite
Chlorobenzene	0.540000 lb/d N/A	1.010000 lb/d N/A		1/year	24hr fw comp

Chloroethane	3.750000 lb/d N/A	9.660000 lb/d N/A		1/year	24hr fw comp
Chloroform	0.760000 lb/d N/A	1.660000 lb/d N/A		1/year	24hr fw comp
Chronic WET	N/A N/A	N/A N/A	See below	1/month	24 hr composite
Chrysene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Cu (T)	Report lb/d Report ug/l	Report lb/d Report ug/l		1/year	24hr fw composite
Di-n-butyl phthalate	0.970000 lb/d N/A	2.050000 lb/d N/A		1/year	24hr fw composite
Diethyl phthalate	2.920000 lb/d N/A	7.310000 lb/d N/A		1/year	24hr fw composite
Dimethyl phthalate	0.680000 lb/d N/A	1.690000 lb/d N/A		1/year	24hr fw composite
DO	N/A 6.000000 mg/l	N/A N/A	See below	1/day	grab
Ethylbenzene	1.150000 lb/d N/A	3.890000 lb/d N/A		1/year	24hr fw comp
Fluoranthene	0.900000 lb/d N/A	2.450000 lb/d N/A		1/year	24hr fw comp
Fluorene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Hexachlorobenzene	0.540000 lb/d N/A	1.010000 lb/d N/A		1/year	24hr fw comp
Hexachlorobutadiene	0.720000 lb/d N/A	1.770000 lb/d N/A		1/year	24hr fw composite
Hexachloroethane	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw comp
Methyl chloride	3.100000 lb/d N/A	6.850000 lb/d N/A		1/year	24hr fw composite
Methylene chloride	1.440000 lb/d N/A	3.210000 lb/d N/A		1/year	24hr fw comp
Naphthalene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
NH3-N	N/A 0.500000 mg/l	N/A N/A	Seasonal; see below	1/day	grab
Nitrobenzene	0.970000 lb/d N/A	2.450000 lb/d N/A		1/year	24hr fw composite
Phenanthrene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Phenol	0.540000 lb/d N/A	0.940000 lb/d N/A		1/year	24hr fw composite
Pyrene	0.900000 lb/d N/A	2.410000 lb/d N/A		1/year	24hr fw composite
Tetrachloroethylene	0.790000 lb/d N/A	2.020000 lb/d N/A		1/year	24hr fw composite
Toluene	0.940000 lb/d N/A	2.880000 lb/d N/A		1/year	24hr fw composite

Facility Name: Texas Eastman Company

Facility Description: Organic chemical manufacturing.

Permit Number: TX0000949

SIC Code: 2869

Trichloroethylene	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw composite
Vinyl chloride	3.750000 lb/d N/A	9.660000 lb/d N/A		1/year	24hr fw composite
Zn (T)	7.400000 lb/d 176.000000 ug/l	15.590000 lb/d 371.000000 ug/l		1/year	24hr fw composite

Limitations/Monitoring Basis:
Outfall 002A designation represents limits at Outfall 002 from the permit's effective date, through Nov. 30, 1994. CBOD5 limit applies during July, August, and September. For Oct. through June the daily avg and daily max CBOD5 limits are 1191 lb/d and 3117 lb/d respectively. The DO and ammonia limits apply during July, August and September. For October through June, the daily avg limits are <4.0 mg/l and 1.0 mg/l. The bases of the effluent limitations and monitoring conditions were not described.

Outfall: 002B | Receiving Water: Sabine River | Treatment: AS

Amount/Components:
Unspecified amount of process, storm water, sanitary sewage, and demineralizer wastewater.

Parameter	Limitations: Daily Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,1,1-Trichloroethane	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw comp
1,1,2-Trichloroethane	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw comp
1,1-Dichloroethane	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw comp
1,1-Dichloroethylene	0.580000 lb/d N/A	0.900000 lb/d N/A		1/year	24hr fw comp
1,2,4-Trichlorobenzene	2.450000 lb/d N/A	5.040000 lb/d N/A		1/year	24hr fw comp
1,2-Dichlorobenzene	2.770000 lb/d N/A	5.870000 lb/d N/A		1/year	24hr fw comp
1,2-Dichloroethane	2.450000 lb/d N/A	7.600000 lb/d N/A		1/year	24hr fw comp
1,2-Dichloropropane	5.510000 lb/d N/A	8.290000 lb/d N/A		1/year	24hr fw comp
1,2-Trans-Dichloroethylene	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw comp
1,3-Dichlorobenzene	1.120000 lb/d N/A	1.590000 lb/d N/A		1/year	24hr fw comp
1,4-Dichlorobenzene	0.540000 lb/d N/A	1.010000 lb/d N/A		1/year	24hr fw comp
2,4-Dichlorophenol	1.410000 lb/d N/A	4.040000 lb/d N/A		1/year	24hr fw comp
2,4-Dimethylphenol	0.650000 lb/d N/A	1.300000 lb/d N/A		1/year	24hr fw comp
2,4-Dinitrophenol	2.560000 lb/d N/A	4.430000 lb/d N/A		1/year	24hr fw composite
2,4-Dinitrotoluene	4.070000 lb/d N/A	10.270000 lb/d N/A		1/year	24hr fw comp
2,6-Dinitrotoluene	9.190000 lb/d N/A	23.090000 lb/d N/A		1/year	24hr fw comp

Facility Name: Texas Eastman Company

Permit Number: TX0000949

SIC Code: 2869

Facility Description: Organic chemical manufacturing.

2-Chlorophenol	1.120000 lb/d N/A	3.530000 lb/d N/A		1/year	24hr fw comp
2-Nitrophenol	1.480000 lb/d N/A	2.490000 lb/d N/A		1/year	24hr fw composite
3,4-Benzofluoranthene	0.830000 lb/d N/A	2.200000 lb/d N/A		1/year	24hr fw composite
4,6-Dinitro-o-cresol	2.810000 lb/d N/A	9.980000 lb/d N/A		1/year	24hr fw composite
4-Nitrophenol	2.590000 lb/d N/A	4.470000 lb/d N/A		1/year	24hr fw composite
Acenaphthene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw comp
Acenaphthylene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Acrylonitrile	3.460000 lb/d N/A	8.720000 lb/d N/A		1/year	24hr fw comp
Anthracene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Benzene	1.330000 lb/d N/A	4.900000 lb/d N/A		1/year	grab
Benzo (a) anthracene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Benzo (a) pyrene	0.830000 lb/d N/A	2.200000 lb/d N/A		1/year	24hr fw composite
Benzo (k) fluoranthane	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Bis (2-ethylhexyl) phthalate	3.710000 lb/d N/A	10.050000 lb/d N/A		1/year	24hr fw composite
Carbon tetrachloride	0.650000 lb/d N/A	1.370000 lb/d N/A		1/year	24hr fw comp
Chlorobenzene	0.540000 lb/d N/A	1.010000 lb/d N/A		1/year	24hr fw comp
Chloroethane	3.750000 lb/d N/A	9.660000 lb/d N/A		1/year	24hr fw comp
Chloroform	0.760000 lb/d N/A	1.660000 lb/d N/A		1/year	24hr fw comp
Chrysene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Cu (T)	Report lb/d Report ug/l	Report lb/d Report ug/l		1/year	24hr fw composite
Di-n-butyl phthalate	0.970000 lb/d N/A	2.050000 lb/d N/A		1/year	24hr fw composite
Diethyl phthalate	2.920000 lb/d N/A	7.310000 lb/d N/A		1/year	24hr fw composite
Dimethyl phthalate	0.680000 lb/d N/A	1.690000 lb/d N/A		1/year	24hr fw composite
Ethylbenzene	1.150000 lb/d N/A	3.890000 lb/d N/A		1/year	24hr fw comp
Fluoranthene	0.900000 lb/d N/A	2.450000 lb/d N/A		1/year	24hr fw comp

Facility Name: Texas Eastman Company | Permit Number: TX0000949

Facility Description: Organic chemical manufacturing. | SIC Code: 2869

Fluorene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Hexachlorobenzene	0.540000 lb/d N/A	1.010000 lb/d N/A		1/year	24hr fw comp
Hexachlorobutadiene	0.720000 lb/d N/A	1.770000 lb/d N/A		1/year	24hr fw composite
Hexachloroethane	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw comp
Methyl chloride	3.100000 lb/d N/A	6.850000 lb/d N/A		1/year	24hr fw composite
Methylene chloride	1.440000 lb/d N/A	3.210000 lb/d N/A		1/year	24hr fw comp
Naphthalene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Nitrobenzene	0.970000 lb/d N/A	2.450000 lb/d N/A		1/year	24hr fw composite
Phenanthrene	0.790000 lb/d N/A	2.130000 lb/d N/A		1/year	24hr fw composite
Phenol	0.540000 lb/d N/A	0.940000 lb/d N/A		1/year	24hr fw composite
Pyrene	0.900000 lb/d N/A	2.410000 lb/d N/A		1/year	24hr fw composite
Tetrachloroethylene	0.790000 lb/d N/A	2.020000 lb/d N/A		1/year	24hr fw composite
Toluene	0.940000 lb/d N/A	2.880000 lb/d N/A		1/year	24hr fw composite
Trichloroethylene	0.760000 lb/d N/A	1.950000 lb/d N/A		1/year	24hr fw composite
Vinyl chloride	3.750000 lb/d N/A	9.660000 lb/d N/A		1/year	24hr fw composite
Zn (T)	7.400000 lb/d 176.000000 ug/l	15.590000 lb/d 371.000000 ug/l		1/year	24hr fw composite

Limitations/Monitoring Basis:
The bases of the effluent limitations and monitoring conditions were not described. See limitations/monitoring basis for Outfall 002A.

Outfall: 003 | Receiving Water: Discharge Channel 2 to Sabine | Treatment: Not described

Amount/Components:
4.7 MGD daily avg. of cooling tower blowdown.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Cu (T)	0.250000 lb/d 21.000000 ug/l	0.530000 lb/d 45.000000 ug/l		1/week	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
pH	N/A N/A	N/A N/A	6.0 su inst. min., 9.0 su	1/day	grab

Facility Name: Texas Eastman Company					Permit Number: TX0000949
Facility Description: Organic chemical manufacturing.					SIC Code: 2869
Zn (T)	2.050000 lb/d 176.000000 ug/l	4.330000 lb/d 371.000000 ug/l		3/week	24hr fw composite

Limitations/Monitoring Basis:
According to the fact sheet, with the exception of BOD5, TSS, and TOC, the effluent limitations remain unchanged from the previous permit; BOD5, TSS, and TOC are not regulated at this outfall in the permit. The bases of the monitoring conditions were not described.

Outfall: 004 | Receiving Water: Sabine River | Treatment: AS

Amount/Components:
Unspecified amount of process, storm water, sanitary sewage, and demineralizer wastewater.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
1,1,1-Trichloroethane	1.450000 lb/d N/A	3.740000 lb/d N/A		1/year	24hr fw composite
1,1,2-Trichloroethane	1.450000 lb/d N/A	3.740000 lb/d N/A		1/year	24hr fw composite
1,1-Dichloroethane	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
1,1-Dichloroethylene	1.110000 lb/d N/A	1.730000 lb/d N/A		1/year	24hr fw composite
1,2,4-Trichlorobenzene	4.710000 lb/d N/A	9.690000 lb/d N/A		1/year	24hr fw composite
1,2-Dichlorobenzene	5.330000 lb/d N/A	11.280000 lb/d N/A		1/year	24hr fw composite
1,2-Dichloroethane	4.710000 lb/d N/A	14.760000 lb/d N/A		1/year	24hr fw composite
1,2-Dichloropropane	10.590000 lb/d N/A	15.920000 lb/d N/A		1/year	24hr fw composite
1,2-Trans-Dichloroethylene	1.450000 lb/d N/A	3.740000 lb/d N/A		1/year	24hr fw composite
1,3-Dichlorobenzene	2.150000 lb/d N/A	3.050000 lb/d N/A		1/year	24hr fw composite
1,4-Dichlorobenzene	1.040000 lb/d N/A	1.940000 lb/d N/A		1/year	24hr fw composite
2,4-Dichlorophenol	2.700000 lb/d N/A	7.750000 lb/d N/A		1/year	24hr fw composite
2,4-Dimethylphenol	1.250000 lb/d N/A	2.490000 lb/d N/A		1/year	24hr fw composite
2,4-Dinitrophenol	4.910000 lb/d N/A	8.510000 lb/d N/A		1/year	24hr fw composite
2,4-Dinitrotoluene	7.820000 lb/d N/A	19.730000 lb/d N/A		1/year	24hr fw composite
2,6-Dinitrotoluene	17.650000 lb/d N/A	44.370000 lb/d N/A		1/year	24hr fw composite
2-Chlorophenol	2.150000 lb/d N/A	6.780000 lb/d N/A		1/year	24hr fw composite
2-Nitrophenol	2.840000 lb/d N/A	4.780000 lb/d N/A		1/year	24hr fw composite
3,4-Benzofluoranthene	1.590000 lb/d N/A	4.220000 lb/d N/A		1/year	24hr fw composite

4,6-Dinitro-o-cresol	5.400000 lb/d N/A	19.170000 lb/d N/A		1/year	24hr fw composite
4-Nitrophenol	4.980000 lb/d N/A	8.580000 lb/d N/A		1/year	24hr fw composite
Acenaphthene	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
Acenaphthylene	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
Acrylonitrile	6.650000 lb/d N/A	16.750000 lb/d N/A		1/year	24hr fw composite
Anthracene	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
Benzene	2.560000 lb/d N/A	9.410000 lb/d N/A		1/quarter	24hr fw composite
Benzo (a) anthracene	1.520000 lb/d N/A	4.220000 lb/d N/A		1/year	24hr fw composite
Benzo (a) pyrene	1.590000 lb/d N/A	4.220000 lb/d N/A		1/year	24hr fw composite
Benzo (k) fluoranthane	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
Bis (2-ethylhexyl) phthalate	7.130000 lb/d N/A	19.310000 lb/d N/A		1/year	24hr fw composite
Carbon tetrachloride	1.250000 lb/d N/A	2.630000 lb/d N/A		1/year	24hr fw composite
CBOD5	498.000000 lb/d N/A	1334.000000 lb/d N/A		3/week	24hr fw composite
Chlorobenzene	1.040000 lb/d N/A	1.940000 lb/d N/A		1/year	24hr fw composite
Chloroethane	7.200000 lb/d N/A	18.550000 lb/d N/A		1/year	24hr fw composite
Chloroform	1.450000 lb/d N/A	3.180000 lb/d N/A		1/year	24hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/month	24 hr fw composite
Chrysene	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
Di-n-butyl phthalate	1.870000 lb/d N/A	3.950000 lb/d N/A		1/year	24hr fw composite
Diethyl phthalate	5.610000 lb/d N/A	14.050000 lb/d N/A		1/year	24hr fw composite
Dimethyl phthalate	1.320000 lb/d N/A	3.250000 lb/d N/A		1/year	24hr fw composite
DO	N/A 5.000000 mg/l	N/A N/A	Limit: >5 mg/l	3/week	grab
Ethylbenzene	2.220000 lb/d N/A	7.480000 lb/d N/A		1/year	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	record
Fluoranthene	1.730000 lb/d N/A	4.710000 lb/d N/A		1/year	24hr fw composite

Facility Name: Texas Eastman Company					Permit Number: TX0000949
Facility Description: Organic chemical manufacturing.					SIC Code: 2869
Fluorene	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
Hexachlorobenzene	1.040000 lb/d N/A	1.940000 lb/d N/A		1/year	24hr fw composite
Hexachlorobutadiene	1.380000 lb/d N/A	3.390000 lb/d N/A		1/year	24hr fw composite
Hexachloroethane	1.450000 lb/d N/A	3.740000 lb/d N/A		1/year	24hr fw composite
Methyl chloride	5.950000 lb/d N/A	13.150000 lb/d N/A		1/year	24hr fw composite
Methylene chloride	2.770000 lb/d N/A	6.160000 lb/d N/A		1/year	24hr fw composite
Naphthalene	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
Nitrobenzene	1.870000 lb/d N/A	4.710000 lb/d N/A		1/year	24hr fw composite
pH	N/A N/A	N/A N/A	6.0 su inst. min., 9.0 su	1/day	grab
Phenanthrene	1.520000 lb/d N/A	4.080000 lb/d N/A		1/year	24hr fw composite
Phenol	1.040000 lb/d N/A	1.800000 lb/d N/A		1/year	24hr fw composite
Pyrene	1.730000 lb/d N/A	4.640000 lb/d N/A		1/year	24hr fw composite
Tetrachloroethylene	1.520000 lb/d N/A	3.880000 lb/d N/A		1/year	24hr fw composite
Toluene	1.800000 lb/d N/A	5.540000 lb/d N/A		1/year	24hr fw composite
Trichloroethylene	1.450000 lb/d N/A	3.740000 lb/d N/A		1/year	24hr fw composite
TSS	3205.000000 lb/d N/A	8000.000000 lb/d N/A		3/week	24hr fw composite
Vinyl chloride	7.200000 lb/d N/A	18.500000 lb/d N/A		1/year	24hr fw composite

Limitations/Monitoring Basis:
The bases of the effluent limitations and monitoring conditions were not described. WET monitoring requirements include reporting endpoints of fecundity, lethality, and growth for both Ceriodaphnia dubia and Pimephales promelas in accordance with Method 1000.0 and 1002.0 and several other specifications outlined in the permit. The permit requires accelerated WET testing in the instance of lethality or non-lethal effects at 17% or less effluent concentration.

Special Conditions Basis:
Specific MLs are set forth for Cu and Zn. Other special conditions include CAS and Storet number listings; 24hr reporting requirements for specific parameters; and volatile organic composite sampling protocal. A scheduleis also set forth for the attainment of compliance with Cu and Zn WQ-based limits at outfalls 002, 003, and 005 by December 1, 1994; quarterly reports are required to be submitted. The basis of these special conditions was not described.

Effective Date: 12/01/91 **Expiration Date:** 11/30/96 **Abstract Date:** 04/16/93

Facility Name: American Gilsonite Company | Permit Number: UT0000167

Facility Description: Gilsonite (hydrocarbon material) mining operation | SIC Code: 1499

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	-

Abstract Information:
Partial; Outfall 007 is active and representative of the 19 mine discharges covered by the permit.

Outfall: 007 | Receiving Water: Dry Wash/Coyote Wash/White R. | Treatment: Sed, Neut

Amount/Components:
0.36 MGD (total from all outfalls) treated groundwater generalted from mining operations.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report mgd		1/week	Measure
O&G	N/A N/A	N/A 10.000000 mg/l		1/quarter	Grab
pH	N/A N/A	N/A Report	Between 6.5 su and 9.0 su	1/week	Grab
TDS	N/A N/A	N/A 3500.000000 mg/l		1/quarter	Grab
TSS	N/A 25.000000 mg/l	N/A 50.000000 mg/l	35 mg/l 7-day average	1/month	Grab

Limitations/Monitoring Basis:
This abstract was created using the permit statement of basis. There is a requirement that provides "the total of all discharges shall not exceed an average of 2 tons of salt per day or 700 tons per year." Ther is also a narrative requirement that states that "the salt discharge is to be minimized by using the largest possible amount of saline water for process, dust control, etc." also a narrative requirement prohibiting the discharge of "process water, floating solids or visible foam other than trace amounts" is included. The monthly average limits are based on Utah Secondary Treatment Standards, UAC 317-1-3.2. The O&G and daily maximum TSS limits are based on BPJ. The TDS limit and "salt per day" limit are based on the Colorado River Basin Salinity Control Forum's 1982 Intercepted Groundwater Policy. Monitoring requirements are all developed in accordance with the 1991 Utah Monitoring, Recording and Reporting Guidelines.

Special Conditions Basis:
The permit contains a reopener that allows for WET testing and limits to be required at a later date if found to be appropriate in the future.

Effective Date: N/A | Expiration Date: N/A | Abstract Date: 04/27/93

Facility Name: Springfield Electroplating | Permit Number: VT0000272

Facility Description: Metal finishing/electroplating and electroless plating | SIC Code: 3471

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	-	-	-	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	√	-

Abstract Information:
Complete; 001

Outfall: 001 | Receiving Water: Black River | Treatment: ChPt

Amount/Components:
1500 GPD (max. allowable) treated electroplating wastewater including resin exchange regenerant.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Cd	N/A N/A	N/A 0.300000 mg/l		1/batch	Grab
Cd	N/A N/A	N/A 0.300000 mg/l		1/batch	Grab
CN	N/A N/A	N/A 0.300000 mg/l		1/batch	Grab
CN	N/A N/A	N/A 0.300000 mg/l		1/batch	Grab
Cr	N/A N/A	N/A 0.500000 mg/l		1/batch	grab
Cr (T)	N/A N/A	N/A 0.500000 mg/l		1/batch	Grab
Cu	N/A N/A	N/A 0.500000 mg/l		1/batch	Grab
Cu	N/A N/A	N/A 0.500000 mg/l		1/batch	Grab
Flow	N/A N/A	N/A 1500.000000 GPD		1/day	total
Ni	N/A N/A	N/A 1.000000 mg/l		1/batch	Grab
Ni	N/A N/A	N/A 1.000000 mg/l		1/batch	Grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 9 .0 su		Grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 9 .0 su		Grab
TSS	N/A N/A	N/A 30.000000 mg/l		1/batch	Grab
TSS	N/A N/A	N/A 30.000000 mg/l	Metal treatment only	1/batch	Grab
TTOs	N/A N/A	N/A 2.130000 mg/l			Grab
TTOs	N/A N/A	N/A 2.130000 mg/l			Grab
Zn	N/A N/A	N/A 1.480000 mg/l		1/batch	Grab

Facility Name: Springfield Electroplating					Permit Number: VT0000272
Facility Description: Metal finishing/electroplating and electroless plating					SIC Code: 3471
Zn	N/A N/A	N/A 1.480000 mg/l		1/batch	Grab

Limitations/Monitoring Basis:
Limits for TSS and TTO are based on ELGs (40 CFR Part 433 - Metal Finishing Point Source Category Electroplating and Electroless Plating). Limits for Cd(T), Cr(T), Cu(T), Ni(T), N(T), flow, and pH are based on the antibacksliding clause of the CWA. Limits for Cd(T), Cr(T), Cu(T), Ni(T), Zn(T), CN(T), and TSS apply to samples collected from treatment batches following metals precipitation. Permit specifies that samples are to be collected from each treatment batch at least 30 minutes after the agitator has been shut off. CN limit applies following treatment batches following CN destruction. Neither metals nor CN treatment batches may be discharged unless samples comply with limits. In lieu of TTO limit, the permittee may certify that no toxic organics are discharged and submit a solvents management plan by 3/31/91 and analyze one grab sample for purgeable organics (list provided in permit).

Special Conditions Basis:
See limitations/monitoring basis

Effective Date: 12/18/90 Expiration Date: 09/30/95 Abstract Date: 09/20/93

Facility Name: J.C. McNeil Generating Station									Permit Number: VT0020401
Facility Description: Steam electric generating station (wood fired)									SIC Code: 4931
Limit Basis:	ELGs ✓	WQSs ✓	BPJ –	Monitoring Only ✓	WET Limits –	WET Testing Only –	Multiple Categories –	Tiered Limits –	Other ✓
Special Conditions:	BMPs –	Storm Water –	Sediment –	WQ Survey ✓	Bio Survey –	TRES –	MDLs –	Monitoring ✓	Other ✓

Abstract Information:
Complete; Outfalls 001a, 001b, and 002.

Outfall: 001A | Receiving Water: Winooski River | Treatment: O/W Sep, Sed, pH adjustment, Co

Amount/Components:
0.365 MGD of cooling water, boiler blowdown, demineralizer regeneration reject, filter backwash, and floor drains.

	Limitations			Monitoring Requirements	
Parameter	Average	Maximum	Other	Frequency	Sample Type
Cd	N/A Report	N/A Report		1/quarter	24hr fw composite
Cd	N/A Report	N/A Report		1/quarter	24hr fw composite
Cd	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
Cr+3	N/A Report	N/A Report		1/quarter	24hr fw composite
Cr+3	N/A Report	N/A Report		1/quarter	24hr fw composite
Cr+3	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
Cu	N/A Report	N/A Report		1/quarter	24hr fw composite
Cu	N/A Report	N/A Report		1/quarter	24hr fw composite
Cu	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
FAC	N/A N/A	N/A Report			
FAC	N/A N/A	N/A N/A			
FAC	N/A Report	N/A Report	See below	1/day	grab
Fe	N/A Report	N/A Report		1/month	24hr fw composite
Fe	N/A Report	N/A Report		1/month	24hr fw composite
Fe	N/A Report	N/A Report	Units not specified	1/month	24 hr fw composite
Flow	N/A 0.365000 MGD	N/A 0.500000 MGD		Continuous	Total
Flow	N/A 0.365000 MGD	N/A 0.500000 MGD		Continuous	Total
Flow	N/A 0.365000 MGD	N/A 0.500000 MGD		continuous	total

Facility Name: J.C. McNeil Generating Station — Permit Number: VT0020401

Facility Description: Steam electric generating station (wood fired) — SIC Code: 4931

Ni	N/A Report	N/A Report		1/quarter	24hr fw composite
Ni	N/A Report	N/A Report		1/quarter	24hr fw composite
Ni	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
Pb	N/A Report	N/A Report		1/quarter	24hr fw composite
Pb	N/A Report	N/A Report		1/quarter	24hr fw composite
Pb	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 8 .5 su		
pH	N/A N/A	N/A N/A	Between 6.0 su and 8 .5 su		
pH	N/A Report	N/A Report	Between 6.0 su and 8 .5 su	continuous	not given
TDS	N/A Report	N/A Report		1/month	24hr fw composite
TDS	N/A Report	N/A Report		1/month	24hr fw composite
TDS	N/A Report	N/A Report	Units not specified	1/month	24 hr fw composite
Temp.	N/A N/A	N/A Report			
Temp.	N/A N/A	N/A N/A			
Temp.	N/A Report	N/A Report	See below	1/week	grab
TRC	N/A N/A	N/A Report			
TRC	N/A N/A	N/A N/A			
TRC	N/A Report	N/A Report	See below	1/day	grab
Zn	N/A Report	N/A Report		1/quarter	24hr fw composite
Zn	N/A Report	N/A Report		1/quarter	24hr fw composite
Zn	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite

Limitations/Monitoring Basis:

Flow limits are based on previous permit. Metals limits were dropped (monitoring still required) due to low concentrations that will not exceed WQS or Federal regulations. Both summer and winter temperature requirementsare WQ-based as in the previous permit which was originally based on thermal mixing zones established and WQS for warm water fish habitat. Monitoring frequency is based on consideration of consistent conformance with WQSs. FAC and TRC limits are consistent with Vermont WQSs and remain unchanged from the previous permit. The 2-hour chlorination-discharge limit is consistent with 40 CFR Part 423. pH is based on Vermont WQSs (40 CFR Part 401.17) for continuous monitoring. A priority pollutant scan is required within 6 months of permit effective date. This is consistent with 40 CFR Part 423. Temperature limitations are dependent upon the background temperature of the receiving stream and are listed in the permit.

Facility Name: J.C. McNeil Generating Station | Permit Number: VT0020401

Facility Description: Steam electric generating station (wood fired) | SIC Code: 4931

Outfall: 001B | Receiving Water: Winooski River | Treatment: API, Sed, Neut, Floc

Amount/Components:
0.365 MGD of cooling water, boiler blowdown, demineralizer regeneration, filter backwash, and floor drains

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Cd	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
Cr+3	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
Cu	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
FAC	N/A Report	N/A Report	See below	1/day	grab
Fe	N/A Report	N/A Report	Units not specified	1/month	24 hr fw composite
Flow	N/A 0.365000 MGD	N/A 0.500000 MGD		continuous	total
Ni	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
Pb	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite
pH	N/A Report	N/A Report	Between 6.0 su and 8 .5 su	continuous	not given
TDS	N/A Report	N/A Report	Units not specified	1/month	24 hr fw composite
Temp.	N/A Report	N/A Report	See below	1/week	grab
TRC	N/A Report	N/A Report	See below	1/day	grab
Zn	N/A Report	N/A Report	Units not specified	1/quarter	24 hr fw composite

Limitations/Monitoring Basis:
Outfall 001B limitations apply to Outfall 001 during the months of June through September. See the limitations/monitoring basis for Outfall 001A. During the summer, temperature limitations are based on the background temperature. The allowable increase in the temperature of the receiving water increases with an increase in the receiving water, or background, temperature. This increase ranges from 1 to 5 degrees F.

Outfall: 002 | Receiving Water: Winooski River | Treatment: Not specified

Amount/Components:
Unspecified amount of treated low volume waste

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A N/A	N/A Report	units not provided	1/quarter	24 hr fw composite
Flow	N/A 0.125000 MGD	N/A 0.500000 MGD		continuous	total
O&G	10.400000 lb/d 10.000000 mg/l	15.600000 lb/d 15.000000 mg/l		1/month	grab

Facility Name: J.C. McNeil Generating Station — Permit Number: VT0020401

Facility Description: Steam electric generating station (wood fired) — SIC Code: 4931

P (T)	0.100000 lb/d 0.100000 mg/l	0.730000 lb/d 0.700000 mg/l		1/month	24 hr fw composite
pH	N/A N/A	N/A Report	See below	not given	not given
TSS	N/A N/A	31.300000 lb/d 30.000000 mg/l		1/month	24 hr fw composite
Turbidity	N/A Report	N/A Report	Units not provided	1/month	24 hr fw composite

Limitations/Monitoring Basis:
The permit requires that the pH not cause the combined discharge with outfall 001 to exceed the permitted limitations of a range 6.5 su and 8.5 su. The permittee is required to calculate UOD, ultimate oxygen demand. A formula for calculating UOD using the results of BOD5 and TKN monitoring is provided. The basis for the other limitations and monitoring requirements was 40 CFR Part 423 and previously issued permits.

Special Conditions Basis:
Thermal mixing zone established up to 300 feet downstream from the outfall. Mixing zone is limited to 2/3 the cross sectional area and/or volume. Instream temp. monitoring required above the discharge and at the lower end of the designated mixing zone. Priority pollutant monitoring (40 CFR part 423 and Appendix A) is to be conducted one within six months of the effective date of the permit. Neither FAC nor TRC may be discharged more than 2 hours per day unless the permittee demonstrates that the unit cannot operate at or below this level of chlorination. Permittee must notify the permitting authority of any change in cooling/boiler water chemicals. Discharge of woodchip leachate is prohibited. Permit prohibits discharge of PCBs, scum, foam, or floating solids. pH excursions must not exceed 60 minutes at any time nor 7 hours in one month.

Effective Date: 08/05/91 — Expiration Date: 06/30/96 — Abstract Date: 09/15/83

Facility Name: VT Whey Company | Permit Number: VT0020702

Facility Description: Production of protein lactose powders from whey | SIC Code: 2023

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	-	-	-	-	-	√	√

Abstract Information:
Complete; Outfall 001 (001a, 001b, and 001c created for abstracting purposes)

Outfall: 001A | Receiving Water: Percolation Ponds D & E | Treatment: EQ, AerL, Sed, CAC

Amount/Components:
Unspecified amount of treated whey processing wastewater discharge.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	12.500000 lb/d 10.000000 mg/l	18.800000 lb/d 15.000000 mg/l		1/month	24hr fw composite
COD	N/A N/A	N/A Report		1/day	24hr fw composite
COD	N/A N/A	N/A N/A		1/day	24hr fw composite
Flow	N/A 0.150000 MGD	N/A 0.150000 MGD		continuous	total
Flow	N/A N/A	N/A N/A		1/day	Meter
NO3	N/A N/A	N/A N/A		1/week	24hr fw composite
NO3	N/A N/A	N/A N/A		1/week	24hr fw composite
P (T)	N/A N/A	2.500000 lb/d 2.000000 mg/l		1/week	24hr fw composite
P (T)	N/A N/A	N/A N/A		1/week	24hr fw composite
pH	N/A N/A	N/A N/A	Between 6.5 SU and 8 .5 SU	1/week	Grab
pH	N/A N/A	N/A N/A		1/week	Grab
SS	N/A N/A	N/A 1.000000 ml/l		1/week	24 hr fw composite
TSS	12.500000 lb/d 100.000000 mg/l	18.800000 lb/d 15.000000 mg/l		1/week	24hr fw composite
TSS	N/A N/A	N/A N/A		1/week	24hr fw composite

Limitations/Monitoring Basis:
Influent BOD and TSS are required operational tools. Previous influent BOD and TSS limits were based on an engineering evaluation and previous compliance history. No other basis for monitoring requirements was provided.

Facility Name: VT Whey Company | Permit Number: VT0020702

Facility Description: Production of protein lactose powders from whey | SIC Code: 2023

Outfall: 001B | Receiving Water: Internal outfall | Treatment: Unspecified

Amount/Components:
Unspecified amount of Step I clarifier effluent.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A	N/A		1/week	24hr fw composite
	N/A	Report			
BOD5	N/A	N/A		1/week	24hr fw composite
	N/A	N/A			
Other	N/A	N/A	Soluble BOD5	1/week	24hr fw composite
	N/A	N/A			
Other	N/A	N/A	Soluble BOD5	1/week	24hr fw composite
	N/A	N/A			
TSS	N/A	N/A		1/week	24hr fw composite
	N/A	Report			
TSS	N/A	N/A		1/week	24hr fw composite
	N/A	N/A			

Limitations/Monitoring Basis:
No basis for Step I clarifier monitoring requirements was provided. The permittee is required to monitor and report the amount of "soluble BOD5".

Outfall: 001C | Receiving Water: Arrowhead Mtn Lake via wells | Treatment: EQ, AerL, Sed, CAC, Fil

Amount/Components:
Unspecified amount of treated whey processing wastewater discharge.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	35.000000 lb/d	57.000000 lb/d		1/week	24hr fw composite
	N/A	15.000000 mg/l			
BOD5	35.000000 lb/d	57.000000 lb/d		1/week	24hr fw composite
	N/A	15.000000 mg/l			
Flow	N/A	N/A		Continuous	Total
	0.425000 MGD	0.460000 MGD			
Flow	N/A	N/A		Continuous	Total daily
	0.425000 MGD	0.460000 MGD			
NO3	N/A	N/A		1/week	24hr fw composite
	N/A	99.000000 mg/l			
NO3	N/A	N/A		1/week	24hr fw composite
	N/A	99.000000 mg/l			
Other	83.000000 lb/d	N/A	Ultimate oxygen dema	1/week	24hr fw composite
	N/A	N/A	nd		
Other	83.000000 lb/d	N/A	Ultimate oxygen dema	1/week	24hr fw composite
	N/A	N/A	nd		
P (T)	N/A	3.000000 lb/d		1/week	24hr fw composite
	N/A	0.780000 mg/l			
P (T)	N/A	3.000000 lb/d		1/week	24hr fw composite
	N/A	0.780000 mg/l			
pH	N/A	N/A	Between 6.5 su and 8	1/day	Grab
	N/A	Report	.5 su		

Facility Name: VT Whey Company | **Permit Number:** VT0020702

Facility Description: Production of protein lactose powders from whey | **SIC Code:** 2023

pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .5 su	1/day	Grab
SS	N/A N/A	N/A 1.000000 ml/l		1/week	24hr fw composite
SS	35.000000 lb/d N/A	57.000000 lb/d 15.000000 mg/l		1/week	24hr fw composite
TKN	N/A N/A	N/A Report		1/week	24hr fw composite
TKN	N/A N/A	N/A Report		1/week	24hr fw composite
TSS	35.000000 lb/d N/A	57.000000 lb/d 15.000000 mg/l		1/week	24hr fw composite
TSS	35.000000 lb/d N/A	57.000000 lb/d 15.000000 mg/l		1/week	24hr fw composite

Limitations/Monitoring Basis:
Ultimate oxygen demand (UOD) is determined from the formula 1.43 (lb/d BOD5) + 4.57 (lb/d TKN) and applies from June 1 - September 30 only. This limit is based on previous monthly average limits for BOD5 and TKN. Flow to percolation ponds (located downstream of 001c) is subject to limits of 0.150 MGD and monthly average and daily max. BOD5 and TSS limits are based on antibacksliding provisions. The P(T) limit was BPJ-based as it was determined to not have an adverse effect on the receiving waters. The SS limits are based on Vermont WQSs. The pH limit is WQ-based. The NO3 limit is based on WQSs and allows for a mixing zone of 200 ft radius.

Special Conditions Basis:
A waste management plan is required and must contain SOPs and a hazardous waste contingency plan. Plan must be updated once every two years. Outfall designations 001a, 001b and 001c correspond to sampling of influent, Step I clarifier effluent, and final effluent. These designations were created for abstract representation. The permittee is required to monitor discharge flow to the percolation ponds (continuous, reporting total daily flow), test well water elevations (1/week by probe) in Wells 1, 3,4, 9, 10, and WH&N 4, and NO3 and TP in test wells 9, 10, WH&N 4, at frequencies of 1/month by grab sample.

Effective Date: 12/02/92 | **Expiration Date:** 06/30/97 | **Abstract Date:** 09/15/93

Facility Name: VT Dept. of Fish and Wildlife | Permit Number: VT0020966

Facility Description: Salmonids fish hatchery | SIC Code: 0921

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	-	-	-	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; outfall 001

Outfall: 001 | Receiving Water: Halnon Brook | Treatment: Sed

Amount/Components:
Unspecified amount of fish culture station effluent.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A Report	N/A N/A	See below	2/year	4hr fw composite
BOD5	N/A Report	N/A N/A	See below	2/year	4hr fw composite
Flow	N/A 1.300000 MGD	N/A N/A	See below	1/week	Instantaneous
Flow	N/A 1.300000 MGD	N/A N/A	See below	1/week	Instantaneous
NH3-N	N/A Report	N/A N/A	See below	2/year	4hr fw composite
NH3-N	N/A Report	N/A N/A	See below	2/year	4hr fw composite
P (T)	N/A Report	N/A N/A	See below	2/month	4hr fw composite
P (T)	N/A Report	N/A N/A	See below	2/month	4hr fw composite
pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .5 su	1/week	Grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .5 su	1/week	Grab
TSS	N/A 5.000000 mg/l	N/A 15.000000 mg/l	See below	2/month	4hr fw composite
TSS	N/A 5.000000 mg/l	N/A 15.000000 mg/l	See below	2/month	4hr fw composite

Limitations/Monitoring Basis:
Flow monitoring is to occur when flow is adjusted and when sampling is done. At least 2 TSS and P(T) samples are to be collected between May and October to coincide with raceway cleaning. The 2/month sample frequency for TSS and P(T) is from May-October only; the frequency is reduced to 1/month from November-April. BOD5 and NH3-N monitoring is required in September and October only. The TSS limit is based on Region 10 recommendations, and is predicated on the use of fish screens which serve as BCT. No other basis for monitoring requirements was available.

Special Conditions Basis:
Raceways are to be cleaned at the maximum frequency practicable during May through October to reduce pulses of TSS. Permit allows addition of formali , salt (NaCl), chloromine T, Romet-30, Roccal II, and Terramycin at concentrations and durations no greater than those used in 1989.

Effective Date: 06/07/91 | Expiration Date: 03/31/96 | Abstract Date: 09/22/93

Facility Name: Daishowa America Co. - Pott An | **Permit Number:** WA0002925

Facility Description: Thermo-methanical pulp and paper mill with deinking | **SIC Code:** 2611

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	-	√	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	√	-	-	-	-	√	√

Abstract Information:
Complete; Outfall 001

Outfall: 001 | **Receiving Water:** St. of Juan de Fuca/Port Angel | **Treatment:** PC, AS

Amount/Components:
6.49 MGD mill wastewater and stormwater.

Parameter	Limitations			Monitoring Requirements	
	daily Average	daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A Report	See below	2/yr	Grab
BOD5	4534.000000 lb/d N/A	8637.000000 lb/d N/A	See below	1/day	24hr composite
Flow	N/A Report mgd	N/A Report mgd		continuous	
O&G	N/A N/A	N/A 15.000000 mg/l		1/week	Grab
Other	N/A N/A	N/A Report	Production (see belo w)	1/day	
pH	N/A Report	N/A Report	Between 5.0 su and 6 .0 su	Continuous	
TSS	6812.000000 lb/d N/A	12703.000000 lb/d N/A	See below	1/day	24 hr composite

Limitations/Monitoring Basis:
BOD5 limits change to 3,680 lb/d DA and 6,982 lb/d DM after start up of new deinking facilities. In addition, TSS limits will change to 6,029 lb/d DA and 11,332 lb/d DM. Effluent limitations are based on BPT and BAT guidelines developed by EPA for the existing pulp and paper mill under 40 CFR Part 430, Subpart M, Groundwood-Thermo-Mechanical. NSPS standards have been used for developing limits for the new deinking facility for conventional pollutants. Effluent limits for toxics are based on State WQS. The limitations for TSS and BOD5 will be reduced due to the reduced production levels from 4450 ADTD to 420 ADTD. There will be a further reduction in these parameters for the deinking facility because of the lower allowances allowed by the NSPS. Production will be monitored in terms of the tonnage of air dried product off the machine. pH limits allow excursions between 4 to 10 s.u. for no longer than 60 min. and a total of 26 min. monthly. Oil and grease limits are based on anti-backsliding. Semi-annual salmonid bioassay tests are required in accordance with "Biological Testing Method Part A, Static Acute Fish Toxicity Test" DOE 80-12, 1991. WET must meet a 85% survival rate in 65% effluent. WET limit is technology-based, derived from historical performance data for the pulp and paper industry. A discussion of the basis for the remaining monitoring conditions was not provided. There is no justification for the frequency-of monitoring. The mixing zone may not extend greater than 330 ft. and acute criteria may not be exceeded greater than 22 ft. from the discharge points. Justification for the mixing zone parameters was not provided.

Special Conditions Basis:
Permittee required to perform the following special studies: 1) particulate monitoring study to look at the particulate fraction of the effluent; 2)chemical analysis of both influent and effluent treatment plant to determine treatment and removal efficiency for pH, hardness, TSS, BOD5, and total recoverable metals; 3) dilution zone study to calculate actual dilution of effluent and energy gradient of diffuser environment; 4) sediment monitoring study including acute bioassay test, chemical analysis and near-field benthic macroinvertebrate study to be performed on sediments near 001; 5- toxicity study to determine amount of copper and cyanide, sources and controls for establishing water quality limits; 6) storm water runoff study to characterize pollutants to assess need for development of BMPs; 7) acute bioassay study (one year) using 3 species to determine most sensitive species (must coordinate with acute and chronic bioassay;); and 8) marine biomonitoring precision study to determine and compare variability of chronic WET tests for 4 different organisms. Pending completion of the precision study, the permittee is required to conduct interim chronic toxicity tests quarterly for one year on two organisms. Testing must be in accordance with EPA chronic testing methods and report the IC25 and the NOEC. Effluent and water quality monitoring, sediment, particulate, chemical analysis of effluent and influent, and dilution zone study are required in response to directives in "Puget Sound Water Quality Management Plan." Permitteerequired to report annually, all slime control methods and materials including a description, amount and periods of application. Any deviations must be reported immediately. Permittee must certify that chlorophenolic compounds are not used and that zinc

Facility Name: Daishowa America Co. - Pott An	Permit Number: WA0002925
Facility Description: Thermo-methanical pulp and paper mill with deinking	SIC Code: 2611

hydrosulfite is not used as a bleaching agent. Permit allows the discharge of suspended solids from the intake water filter plant backwash and storm water discharges from 001, 002, 003, 004, 005, 006, 010, 011, and 012 without limitations. An approved BMP plan is required prior to discharge of groundwater from construction dewatering. Submittal of construction plans and specifications are required for any modifications made to the wastewater treatment system and the storm water and wastewater conveyance system. Permittee must submit for approval a solid waste disposal plan, spill control plan, and a treatment system operating plan. A reopener statement allows modifications to permit conditions and/or limitations based on results of special studies and monitoring.

Effective Date: 11/26/90	Expiration Date: 11/27/95	Abstract Date: 09/09/93

Facility Name: Occidental Chemical Corp. | Permit Number: WA0037265

Facility Description: Inorganic chemical and fertilizer manufacturer | SIC Code: 2812

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	-	√	-	-	√	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	√	√	√	√	-	√	-

Abstract Information:
Complete; Outfall 002

Outfall: 002 | Receiving Water: Hylebos Waterway | Treatment: Not described.

Amount/Components:
24.5 MGD of process wastewater and stormwater.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Cu	N/A 6.100000 ug/l	N/A 12.700000 ug/l	See below	1/month	24hr composite
Flow	N/A N/A	N/A 24.500000 mgd	See below	1/day	estimate
NH3 (T)	7.300000 lb/d N/A	12.500000 lb/d N/A	See below	1/month	24hr composite
Ni	1.400000 lb/d N/A	2.500000 lb/d N/A	See below	1/month	24hr composite
Pb	1.200000 lb/d N/A	2.500000 lb/d N/A	See below	1/month	24hr composite
pH	N/A Report	N/A N/A	Between 6.0 su and 9.0 su	Continuous	Record
Temp.	N/A N/A	N/A 32.000000	Units: degrees Celcius	Continuous	record
TRC	N/A 12.000000 ug/l	N/A 35.000000 ug/l	See below	4/day	24hr composite
TSS	348.000000 lb/d N/A	697.000000 lb/d N/A	See below	1/month	24hr composite

Limitations/Monitoring Basis:
Flow monitoring may be estimated. Within 2 years, all flows must be measured with direct flow monitoring methods. Flow is measured daily at the effluent outfall, weekly at the intake and monthly at the ammonia facility.pH limitation is based on the general guideline at 40 CFR Part 401.17 for continuously monitored pH. Allowable excursions are further limited to a min. of 3.5 and a max. of 11.0 with an exemption of a continuous excursion of not more than 60 minutes not exceeding one percent of the operating time each month. pH limit was based on the fact that the effluent at the facility is not defined enough to ensure that all known, available and reasonable methods of treatment are being applied and that the limit will be sufficiently protective. Enforcement actions for excursions to consider major power failures or mechanical breakdowns. Limitations for TSS, TRC, Cu, Pb, and Ni are based on BPT/BCT and BAT under 40 CFR Part 415 for chlor-alkali diaphragm cells. Ammonia limits are based on BAT at 40 CFR 418.23. Sampling for metals and ammonia must be conducted twice weekly for a total of eight samples during February, May, August, and November for the first year of the permit to access the variability of the effluent and the need for more frequent sampling. The TSS limit is measured by taking the net value of the discharge minus the intake value. Temperature is required to be monitored in the effluent and the receiving stream. Temperature is limited at 32 degrees celcius when the most recently measured receiving water temperature is less than 18.5 degrees celcius. Excursions above the limit will not be considered violations if they do not exceed 15 minutes in any 6 hour period and an instantaneous maximum of 34.5 degrees celcius isnot exceeded. A discussion of the basis for the remaining parameters and monitoring conditions was not provided.

Special Conditions Basis:
A study requiring the chemical analysis of the intake sources, internal process streams (direct and treated noncontact) and effluent is required. The analyses for all of the sources will include TSS, metals, volatiles, semi-volatiles, and PCBs. Analyses for the effluent and intakes will include NH3, pH, TRC, O&G, and temperature. Sampling for this study must coincide in the second year of the permit term with one sampling for the acute and chronic biomonitoring study. Permittee must develop and implement a sediment baseline study plan to address both chemical analyses and biological studies of the sediment. The plan is to be submitted within 18 months of written notice that CERCLA clean-up activities have been completed. After approval, the sampling must be conducted in the month of March or April. If the chemical concentrations exceed interim sediment creiteria, biological testing must

Facility Name: Occidental Chemical Corp.	Permit Number: WA0037265
Facility Description: Inorganic chemical and fertilizer manufacturer	SIC Code: 2812

be performed. Puget Sound protocols, monitoring requirements, analyses to be performed and sampling and QA/QC procedures are specified. Sediment conditions such as a sediment impact and/or sediment recovery zones may be placed in the permit, if adopted for the discharge area. An effluent mixing study is required to determine the degree of effluent and receiving water mixing and the degree to which effluent, prior to complete mixing, returns to the plant through its intake. Results may be used to issue a regulatory order or to modify the permit to require a reduction of pollutants to meet WQSs. The study must include a receiving waterbuffering study to verify that the pH limit will not violate WQSs. A discharge reduction and elimination study is required to evaluate methods of approaching or achieving a zero-contaminant discharge. The study must evaluate sources such as high temperature cooling waters, chlorine stripping and cooling losses and sodium sulfate purge. The pollutants of concern for source reduction must include Cu, Pb, Ni, and Cl. Both effluent acute and chronic biomonitoring studies are required. The acute biomonitoring study includes acute toxicity testing every two months with three organisms. After one year, the most sensitive species will be used to conduct the testing on a quarterly basis in accordance with EPA methods for measuring acute toxicity. If acute toxicity is found, the permitting authority must be notified immediately and a study initiated to determine the source of the toxicity. If toxicity remains after the analysis, the permittee may be directed to implement additional measures to achieve reduction in toxicity. Starting in the second year, chronic toxicity testing will be requiredquarterly, on three species, for one year in accordance with EPA, ASTM, and other protocols. Samples must be collected at the same time as the quarterly acute samples. Additional special studies include: 1) a particulate monitoring study requiring the collection and analysis of particulate samples for specified pollutants; 2) a study of the submerged portion of the outfall line and diffuser, including an inspection, and photography (if conditions permit) to document its integrity and continued function; 3) a storm water runoff study to fully assess sources, routing, amounts, and water quality of all storm water discharges; and 4) spill containment study.

Effective Date: 12/15/91	Expiration Date: 11/15/96	Abstract Date: 04/12/93

Facility Name: Scott Paper Co at Oconto Falls | Permit Number: WI0000531

Facility Description: Deinks and pulps secondary fibers for shipment to paper mill | SIC Code: 2611

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	=	√	√	√	=	√	=	=	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	=	=	=	=	=	=	√	=	√

Abstract Information:
Complete; Outfalls 001 (A and B for abstracting purposes), 004, 007, and 010.

Outfall: 001 | Receiving Water: Oconto River | Treatment: AS

Amount/Components:
1.551 MGD consisting of treated deink process wastewater, stormwater runoff, lagoon underdrain, landfill leachate, and belt filterpress filtrate.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,2,4,5-Tetrachlorobenzene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
2,3,7,8-TCDD	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
2,4,6-Trichlorophenol	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
3,3-Dichlorobenzidine	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
4, 4'-DDT	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Acrolein	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Acute WET	N/A N/A	N/A Report	See below	once	grab
Aldrin	N/A N/A	N/A Report mg/l	See below	once	24hr fw composite
Alpha-BHC	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Beta-BHC	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
BHC	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
BOD5	1316.000000 lb/d N/A	2534.000000 lb/d N/A		1/day	24hr fw composite
Chlordane	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Chronic WET	N/A N/A	N/A Report	See below	once	grab
Cr+6	N/A N/A	N/A Report mg/l	See below	once	grab
Dieldrin	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Endosulfan sulfate	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Endrin	N/A N/A	N/A Report mg/l		1/year	24hr fw composite

Facility Name: Scott Paper Co at Oconto Falls — Permit Number: WI0000531

Facility Description: Deinks and pulps secondary fibers for shipment to paper mill — SIC Code: 2611

Flow	N/A N/A	N/A Report MGD		Continuous	Record
Fluoranthene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Gamma-BHC	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Heptachlor	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Hexachlorobenzene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Hg (T)	N/A N/A	N/A Report mg/l		1/year	grab
P (T)	N/A N/A	N/A Report mg/l		1/month	24hr fw composite
PCBs (T)	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Pentachlorobenzene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Pentachlorophenol	N/A N/A	N/A Report mg/l	See below	once	24hr fw composite
pH	N/A N/A	N/A Report	Between 5.0 su and 9.0 su	continuous	record
Temp.	N/A N/A	N/A Report F		1/month	grab
Toxaphene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
TRC	N/A N/A	N/A Report mg/l	See below	once	grab
TSS	1813.000000 lb/d N/A	3367.000000 lb/d N/A		1/day	24hr fw composite

Limitations/Monitoring Basis:

The limits shown above apply 1/1/93-9/30/93. By 9/30/93 the permittee should have installed secondary treatment and relocated the outfall to the intake side of turbines or the center spillway. Monthly monitoring is established for P (T) based on advice from The Bureau of Water Resource Management (WRM) and the pending Wisconsin phosphorus rules (Wisconsin Adm Code NR 217). State promulgated technology based limits (NR 284) form the basis for the limitations for BOD5, TSS and pH. The pH limit includes additional conditions: The pH values shall not go outside the specified range for more than 446 minutes in any calendar month; no individual excursion shall exceed 60 minutes; no individual excursion shall be outside 4.0 su to 11.0 su; and the permittee is required to report any excursion. Monitoring for temperature was retained from the previous permit. Several parameters - chlorine, Cr+6, pentachlorophenol, and aldrin, require one-time monitoring because the data submitted with the permit application were based on high detection levels. After retesting, the results of the analyses will be used to determine the necessity for limitations. Monitoring for bioacculmulating toxic substances is based on Wisconsin policy. All outfalls contain a water quality-based prohibition of discharge of floating solids orvisible foam in other than trace amounts. Acute and chronic WET testing is based on WRM water quality considerations, with no other justification provided. Acute WET testing is to be conducted once during April through June 1993 following procedures provided in the permit, with 3 dilutions and 3 species. Chronic WET testing is to be conducted once during April through September 1993 following procedures in the permit, with 4 dilutions and 2 species. Additional testing is required if the test results are positive.

Facility Name: Scott Paper Co at Oconto Falls | Permit Number: WI0000531

Facility Description: Deinks and pulps secondary fibers for shipment to paper mill | SIC Code: 2611

Outfall: 001A | Receiving Water: Oconto River | Treatment: AS

Amount/Components:
0.019 MGD consisting of spent sulfite liquor lagoon discharges

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Al	N/A N/A	1496.000000 ug/l N/A		1/day	24hr composite
Aldrin	43.000000 ng/l N/A	N/A N/A	See below	1/day	24hr composite
BOD5	N/A N/A	N/A Report mg/l		1/day	24hr composite
Cr+6	N/A N/A	N/A 28.400000 ug/l	See below	1/day	grab
Flow	N/A N/A	N/A Report MGD		Continuous	Total
Pentachlorophenol	N/A N/A	27.800000 ug/l N/A	See below	1/day	grab
pH	N/A N/A	N/A Report		1/day	grab
TRC	N/A N/A	N/A 37.000000 mg/l		1/day	grab
TSS	N/A N/A	N/A Report mg/l		1/day	24hr composite

Limitations/Monitoring Basis:
These monitoring requirements and limitations apply only during periods of discharge. The basis for the limits and monitoring conditions were not discussed, except that monitoring for BOD5, TSS, and pH was based on policy, and limits were based on WRM water quality-based considerations.

Outfall: 001B | Receiving Water: Oconto River | Treatment: AS

Amount/Components:
1.551 MGD consisting of wastewater treatment plant effluent and lagoon underdrain discharges.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
1,2,4,5-Tetrachlorobenzene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
2,3,7,8-TCDD	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
2,4,6-Trichlorophenol	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
3,3-Dichlorobenzidine	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
4, 4'-DDT	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Acrolein	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Acute WET	N/A N/A	N/A Report	See below	1/year	grab
Aldrin	N/A N/A	N/A Report mg/l	See below	once	24hr fw composite

Facility Name: Scott Paper Co at Oconto Falls | Permit Number: WI0000531

Facility Description: Deinks and pulps secondary fibers for shipment to paper mill | SIC Code: 2611

Alpha-BHC	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Beta-BHC	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
BHC	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
BOD5	1504.000000 lb/d N/A	2896.000000 lb/d N/A		1/day	24hr fw composite
Chlordane	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Chronic WET	N/A N/A	N/A Report	See below	1/year	grab
Dieldrin	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Endosulfan sulfate	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Endrin	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Flow	N/A N/A	N/A Report MGD		Continuous	Record
Fluoranthene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Gamma-BHC	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Heptachlor	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Hexachlorobenzene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Hg (T)	N/A N/A	N/A Report mg/l		1/year	grab
Other	N/A N/A	N/A Report mg/l	Chlorine See below	once	grab
P (T)	N/A N/A	N/A Report mg/l		1/month	24hr fw composite
PCBs (T)	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Pentachlorobenzene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Pentachlorophenol	N/A N/A	N/A Report mg/l	See below	once	24hr fw composite
pH	N/A N/A	N/A Report	Between 5.0 su and 9.0 su	continuous	record
Temp.	N/A N/A	N/A Report F		1/month	grab
Toxaphene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
TSS	1813.000000 lb/d N/A	3367.000000 lb/d N/A		1/day	24hr fw composite

Limitations/Monitoring Basis:
Outfall 001B refers to the relocation of Outfall 001. The limits shown apply to Outfall 001 10/1/93 through 12/31/97. See the limitations/monitoring basis discussion for Outfall 001.

Facility Name: Scott Paper Co at Oconto Falls | Permit Number: WI0000531

Facility Description: Deinks and pulps secondary fibers for shipment to paper mill | SIC Code: 2611

Outfall: 004 | Receiving Water: Oconto River | Treatment: AS

Amount/Components:
0.019 MGD consisting of spent sulfite liquor lagoon discharges

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	once	grab
Aldrin	4.980000 mg/d N/A	N/A N/A	See below	1/quarter	grab
BOD5	N/A N/A	N/A Report mg/l		1/month	24hr composite
Chronic WET	N/A N/A	N/A Report	See below	once	grab
CN (T)	N/A N/A	44.800000 ug/l N/A	See below	1/quarter	grab
Cr+6	N/A N/A	N/A 28.400000 ug/l	See below	1/quarter	grab
Flow	N/A N/A	N/A Report MGD		Continuous	Record
Nitrobenzene	N/A N/A	N/A N/A			
P (T)	N/A N/A	N/A Report mg/l		1/quarter	24hr composite
Pentachlorophenol	N/A N/A	27.800000 ug/l N/A	See below	1/quarter	grab
pH	N/A N/A	N/A Report	Between 5.0 su and 9 .0 su	1/month	grab
TRC	N/A N/A	N/A 37.000000 ug/l	See below	1/quarter	grab
TSS	N/A N/A	N/A Report mg/l		1/month	24hr composite

Limitations/Monitoring Basis:
This outfall is generally not used because the lagoon underdrain usually discharges to Outfall 001 rather than directly to the Oconto River. The monitoring conditions for BOD5, TSS and pH are based on the previous permit. Monitoring for P(T) is based on BPJ and the pending Wisconsin phosphorus rules (NR 219). The limitations for Cr+6, CN, pentachlorophenol and aldrin are based on WRM water quality considerations. Because the data submitted with the permit application were based on high detection levels, the permittee must submit retest results. The first effluent sample and analysis will be used as the basis for determining the need for continued monitoring and effluent limitations. The permit contains annual mass limitations (and a method for calculating this), as follows: chlorine 0.97 kg/d, Cr+6 0.75 kg/d, CN 1.18 kg/d, and pentachlorophenol 0.73 kg/d. These limitations apply only if these substances are detected at a concentration greater than the level of concern specified in the permit. Acute and chronic WET testing are required during the first occcurrence of direct discharge to the Oconto River. The procedures described for Outfall 001 apply.

Outfall: 007 | Receiving Water: Oconto River | Treatment: None

Amount/Components:
20,000 gpd noncontact cooling water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		1/week	total

Facility Name: Scott Paper Co at Oconto Falls | Permit Number: WI0000531

Facility Description: Deinks and pulps secondary fibers for shipment to paper mill | SIC Code: 2611

Temp.	N/A N/A	N/A Report oF		1/week	grab

Limitations/Monitoring Basis:
The monitoring requirements were retained from the previous permit.

Outfall: 010 | Receiving Water: Oconto River | Treatment: None

Amount/Components:
0.154 MGD clarifier site groundwater

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A N/A	N/A Report mg/l		1/month	grab
Flow	N/A N/A	N/A Report MGD		1/month	estimate
pH	N/A N/A	N/A Report su		1/quarter	grab
TSS	N/A N/A	N/A Report ng.k		1/quarter	grab

Limitations/Monitoring Basis:
The monitoring requirements were retained from the previous permit.

Special Conditions Basis:
When the limits for a parameter are below detection levels, the permittee is required to report the methods used to calculate the limits of detection and quantitation and submit this information with the DMR. The permit includes instructions for reporting results for these parameters. The permittee is required to submit a QA/QC plan no less than 45 days before conducting the first toxicity testing. Procedures for conducting acute and chronic WET testing are provided, specifying 5 dilutions and 3 species for acute WET and 4 dilutions and 2 species for chronic WET testing. The permitee is required to submit a plan of action for abandonment of the sulfite liquor lagoon addressing the groundwater, soil and sludge.

Effective Date: 03/08/93 | Expiration Date: 12/31/97 | Abstract Date: 06/04/93

Facility Name: Wisc Elec Power Co - Oak Creek | Permit Number: WI0000914

Facility Description: Coal-fired steam electric power plant rated at 1045 MW | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	-	√	√	√

Abstract Information:
Partial; Outfalls 001, 002, 007 (representing 003, 004, 005, and 006), 008, 009, 012, 103, and 303.

Outfall: 001 | Receiving Water: Lake Michigan | Treatment: Scr.

Amount/Components:
Unspecified amount of condenser cooling and hydrovactor waters, boiler blowdown diverted from Outfall 007, fire protection water, stormwater, and misc

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		Continuous	Record
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/day	grab
Temp.	N/A N/A	N/A Report oF		Continuous	Record
TRC	N/A N/A	N/A Report mg/l	See below	1/day	grab

Limitations/Monitoring Basis:
While the limitations are always effective, the permittee is required to monitor only during periods of discharge. The pH limit is based on Wisconsin Admin. Code NR 102.04(4) (c)) water quality standards. TRC monitoring conditions are based on State promulgated technology-based effluent guidelines Wisc. Admin. Code NR 290, Steam Electric Power Generating category. Because of concern for Zebra mussle infestation, the facility was granted a variance from effluent limitations guidelines for the 2hr./day/generating unit maximum discharge of TRC. The maximum TRC concentration is limited to 0.2 mg/l for any day when chlorine is discharged for less than 120 min/day per operating generating unit. In accordance with NR 290, Wisc. Admin. Code, which reflects Effluent Guidelines Limitations for Steam Electric Power Generating. The maximum TRC is limited to 0.037 mg/l for any day chlorine is discharged for more than 120 min. per operating generating unit per day based on water quality standards. The permittee is required to develop a curve based on data collected on the TRC discharged versus time The TRC discharged is to be measured by taking a grab sample during the peak chlorine discharge of each event. This curve is due within 120 days after commencement of chlorination. Temperature monitoring is required to protect aquatic life. Duration of chlorination is to be recorded based on record of TRC addition. While temperature data are recorded daily, they may be reported annually. All of the outfalls are prohibited from the discharge of floating solids or visible foam in other than trace amounts.

Outfall: 002 | Receiving Water: Lake Michigan | Treatment: None specified.

Amount/Components:
Unspecified amount of fire protection water and stormwater runoff from roof drains

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		1/quarter	total daily
O&G	N/A N/A	N/A Report mg/l		1/quarter	grab
pH	N/A N/A	N/A Report	Between 6.0 su and 9 .0 su	1/quarter	grab

Facility Name: Wisc Elec Power Co - Oak Creek | Permit Number: WI0000914

Facility Description: Coal-fired steam electric power plant rated at 1045 MW | SIC Code: 4931

TSS	N/A N/A	N/A Report mg/l		1/quarter	24hr fw composite

Limitations/Monitoring Basis:
The pH limitation was water quality-based. The basis for the other monitoring requirements were not discussed.

Outfall: 007 | Receiving Water: Lake Michigan | Treatment: CAC, Sed.

Amount/Components:
Unspecified amount of industrial treatment plant effluent consisting of low volume waste, noncontact cooling water, storm water and coal pile runoff.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
1,2,4,5-Tetrachlorobenzene	N/A N/A	N/A N/A	113 lb/year	1/year	24hr fw composite
2,3,7,8-TCDD	N/A N/A	N/A N/A	3.6 x 10(-6) lb/year	1/year	24hr fw composite
2,4,6-Trichlorophenol	N/A N/A	N/A N/A	113 lb/year	1/year	24hr fw composite
3,3-Dichlorobenzidine	N/A N/A	N/A N/A	5 lb/year	1/year	24hr fw composite
4, 4'-DDT	N/A N/A	N/A N/A	0.006 lb/year	1/year	24hr fw composite
Acrolein	N/A N/A	N/A N/A	113 lb/year	1/year	grab
Acute WET	N/A N/A	N/A Report	See below	2/year	24hr fw composite
Alpha-BHC	N/A N/A	N/A N/A	1.1 lb/year	1/year	24hr fw composite
Beta-BHC	N/A N/A	N/A N/A	1.1 lb/year	1/year	24hr fw composite
BHC	N/A N/A	N/A N/A	1.1 lb/year	1/year	24hr fw composite
Chlordane	N/A N/A	N/A N/A	0.16 lb/year	1/year	24hr fw composite
Cu (T)	N/A N/A	N/A Report mg/l		1/month	24hr fw composite
Dieldrin	N/A N/A	N/A N/A	0.021 lb/year	1/year	24hr fw composite
Endrin	N/A N/A	N/A N/A	1.1 lb/year	1/year	24hr fw composite
Fe (T)	N/A N/A	N/A Report mg/l		1/month	24hr fw composite
Flow	N/A N/A	N/A Report MGD		continuous	total daily
Fluoranthene	N/A N/A	N/A N/A	66 lb/year	1/year	24hr fw composite
Gamma-BHC	N/A N/A	N/A N/A	1.1 lb/year	1/year	24hr fw composite
Heptachlor	N/A N/A	N/A N/A	0.05 lb/year	1/year	24hr fw composite

Hexachlorobenzene	N/A N/A	N/A N/A	0.2 lb/year	1/year	24hr fw composite
Hg (T)	N/A N/A	N/A N/A	0.25 lb/year	1/year	24hr fw composite
O&G	601.000000 lb/d 15.000000 mg/l	1218.000000 lb/d 20.000000 mg/l		1/week	grab
Other	N/A N/A	N/A N/A	Endosulfan: 1.1 lb/year	1/year	24hr fw composite
PCBs (T)	N/A N/A	N/A N/A	0.019 lb/year	1/year	24hr fw composite
Pentachlorobenzene	N/A N/A	N/A N/A	113 lb/year	1/year	24hr fw composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	1/day	grab
Toxaphene	N/A N/A	N/A N/A	0.23 lb/year	1/year	24hr fw composite
TSS	1202.000000 lb/d 30.000000 mg/l	6092.000000 lb/d 100.000000 mg/l		1/day	24hr fw composite

Limitations/Monitoring Basis:
The TSS and O&G limits are based on State promulgated technology-based effluent guidelines Wisc. Admin. Code NR 290, Steam Electric Power Generating category. While the TSS monthly average limits are fixed, the TSS daily maximum and the O&G concentration limits are to be calculated using 2 different wastewater streams, with equations provided in the permit. Based on WRM recommendations, acute WET testing, using an invertebrate and a vertebrate, is required using at least 3 freshwater test, 48 and 96 hour, species following EPA methods, primary and secondary control water, and 2 dilutions. In conformance with Wisc. Admin. Code NR 102.12 (2), monitoring and limitations for bioaccumulating toxic substances to the Great Lakes have been included in the permit. Default concentrations are provided for some pollutants to determine compliance with annual loading limits where pollutants are below detection levels. Sampling for bioaccumulative substances must represent normal or maximum levels of discharge. If first sampling reveals no detectable bioaccumulative substnaces, then no additional monitoring is required. If substances are detected, then frequency of 1/year applies. The table of limits include the EPA test methods, MDL, and monitoring requirements. Monitoring for Cu (T) and Fe (T) are based on EPA's 1982 metal cleaning waste effluent limitations using BPJ. The pH limits are water quality-based per Wisc. Admin. Code NR 102.04(4) (c).

Outfall: 008 | Receiving Water: Lake Michigan | Treatment: None specified.

Amount/Components:
Unspecified amount of uncontaminated storm water runoff from the north yard and emergency overflow from Outfall 007 yard area runoff.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report	Report as bypass		

Limitations/Monitoring Basis:
Outfalls 008, 009, and 010 are not authorized to discharge untreated storm water runoff except under circumstances of a volume of rainfall in excess of that generated by a 10-year, 24-hour rainfall event. Any discharge must be reported as a bypass.

Outfall: 009 | Receiving Water: Lake Michigan | Treatment: None specified.

Amount/Components:
Unspecified amount of storm water runoff from surface areas west of the plant and transformer bay drains, and upper reserve coal pile runoff overflow

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/month	total

Facility Name: Wisc Elec Power Co - Oak Creek | Permit Number: WI0000914

Facility Description: Coal-fired steam electric power plant rated at 1045 MW | SIC Code: 4931

TSS	N/A N/A	N/A Report mg/l		1/month	grab

Limitations/Monitoring Basis:
The basis for the monitoring conditions was not discussed.

Outfall: 012 | Receiving Water: Lake Michigan | Treatment: Scr

Amount/Components:
3.6 MGD consisting of intake screen backwash.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		1/month	estimate

Limitations/Monitoring Basis:
The monitoring of flow from Outfall 012 was continued from the previous permit.

Outfall: 103 | Receiving Water: Internal to Outfall 003 | Treatment: None specified.

Amount/Components:
0.892 MGD discharge from the Unit 5 fly ash and bottom ash hydrovactors

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		2/month	total
O&G	15.000000 mg/l N/A	20.000000 mg/l N/A		1/year	grab
TSS	30.000000 mg/l N/A	100.000000 mg/l N/A		2/month	24hr fw composite

Limitations/Monitoring Basis:
The limits for TSS and O&G are applied to the net discharge of pollutants (effluent concentration minus influent concentration), in accordance with 40 CFR 122.45(g). Thus, the permittee is also required to monitor the influent concentrations of TSS and O&G. The TSS and O&G limits are based on State promulagated technology-based effluent guidelines Wisc. Admin. Code NR 290, Steam Electric Power Generating category for low volume waste. The monitoring basis was not otherwise discussed.

Outfall: 303 | Receiving Water: Internal to Outfall 003 | Treatment: None specified.

Amount/Components:
Unspecified amount consisting of boiler blowdown

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A Report MGD		2/month	total
O&G	15.000000 mg/l N/A	20.000000 mg/l N/A		1/year	grab

Facility Name: Quaker State Oil Refining Corp | Permit Number: WV0004626

Facility Description: Manufactures finished oil products from Pennsylvania grade crude oil | SIC Code: 2911

Outfall: 003 | Receiving Water: Unnamed trib. to Congo Run | Treatment: Not described

Amount/Components:
Uncontaminated storm water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chloride	Report lb/d Report mg/l	N/A N/A		1/month	grab
COD	Report lb/d Report mg/l	Report lb/d Report mg/l		1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/month	estimate
O&G	Report lb/d Report mg/l	Report lb/d 10.000000 mg/l		1/month	grab
pH	N/A N/A	N/A N/A	Monitor min. and max . su	1/month	grab
TOC	Report lb/d Report mg/l	Report lb/d Report mg/l		1/month	grab
TSS	Report lb/d Report mg/l	Report lb/d Report mg/l		1/month	grab

Limitations/Monitoring Basis:
A discussion of limitations and monitoring requirements was not provided.

Special Conditions Basis:
Within 9 months, the BMP plan must be updated because of changes at the facility and changes to regulations. Additionally, conditions considered good housekeeping practices are specified as important parts of a BMP plan and are identified as having potential to minimize soil contamination, minimize pollutants discharged in storm water, and protect the ground water. These include: 2/week inspection of the oily sewer and the maintenance of a log of the same; 1/week inspection of manufacturing, storage, and loading areas for drippage/leakage and the remediation of the same; inspection of all pumps, lines, and valves for drippage/leakage and the remediation of the same; proper and prompt removal of stained soil and gravel on the facility site; and prevention of overflows through precautions. Schedules are set forth for compliance with 001B conditions by 3/21/94, compliance with the installation of a 1 mgd holding tank, which will support a 10yr, 24hr rainfall event, by 3/21/93, and compliance with the implementation of the groundwater monitoring plan (specific requirements are set out) by 3/21/92; compliance reports must be submitted within 14 days of the milestone date. The facility must also submit, within 6 months, an As treatability and economic analysis study. The latter two conditions are based on the facility's storm water management plan and groundwater management plan as outlined in specifically cited correspondence. Other special conditions and justifications include the following: 1) annual reporting of average daily crude oil processing; this is specified because limits are based on fee raes and changes will dictate the need for permit modifications; 2) a prohibition of bypassing; this is reiterated to emphasize bypass prohibitions; 3) quarterly reporting of removal efficiency of BOD5, TOC, O&G, and COD because this information is needed to evaluate O&M based on specific removal rates cited from the development document; 4) semi-annual monitoring of intake water from each well for COD, TOC, pH, Fe (T), Mn (T), and chloride and the submission of test results within 30 days; this condition is necessary since the facility is using groundwater as makeup water and intake water pollutants must be identified so that they may be discharged; 5) within 60 days, the removal of stained soil and gravel in the unnamed tributary to the Congo Run and monthly inspection of the weir prior to the unnamed tributary; these conditions result from oily sediment and solids build-up which are problems noted in previous inspections; and 6) a prohibition of untreated cooling tower blowdown (pH outside 6-9 su); this condition is necessary due to high dissolved metals concentrations present in low pH blowdown waters.

Effective Date: 09/21/91 | Expiration Date: 08/20/96 | Abstract Date: 05/24/93

Facility Name: Wisc Elec Power Co - Oak Creek

Facility Description: Coal-fired steam electric power plant rated at 1045 MW

Permit Number: WI0000914

SIC Code: 4931

TSS	N/A N/A	N/A Report mg/l		1/month	grab

Limitations/Monitoring Basis:
The basis for the monitoring conditions was not discussed.

Outfall: 012 | Receiving Water: Lake Michigan | Treatment: Scr

Amount/Components:
3.6 MGD consisting of intake screen backwash.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		1/month	estimate

Limitations/Monitoring Basis:
The monitoring of flow from Outfall 012 was continued from the previous permit.

Outfall: 103 | Receiving Water: Internal to Outfall 003 | Treatment: None specified.

Amount/Components:
0.892 MGD discharge from the Unit 5 fly ash and bottom ash hydrovactors

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		2/month	total
O&G	15.000000 mg/l N/A	20.000000 mg/l N/A		1/year	grab
TSS	30.000000 mg/l N/A	100.000000 mg/l N/A		2/month	24hr fw composite

Limitations/Monitoring Basis:
The limits for TSS and O&G are applied to the net discharge of pollutants (effluent concentration minus influent concentration), in accordance with 40 CFR 122.45(g). Thus, the permittee is also required to monitor the influent concentrations of TSS and O&G. The TSS and O&G limits are based on State promulagated technology-based effluent guidelines Wisc. Admin. Code NR 290, Steam Electric Power Generating category for low volume waste. The monitoring basis was not otherwise discussed.

Outfall: 303 | Receiving Water: Internal to Outfall 003 | Treatment: None specified.

Amount/Components:
Unspecified amount consisting of boiler blowdown

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A Report MGD		2/month	total
O&G	15.000000 mg/l N/A	20.000000 mg/l N/A		1/year	grab

Facility Name: Wisc Elec Power Co - Oak Creek | Permit Number: WI0000914

Facility Description: Coal-fired steam electric power plant rated at 1045 MW | SIC Code: 4931

TSS	30.000000 mg/l N/A	100.000000 mg/l N/A		2/month	24hr fw composite

Limitations/Monitoring Basis:
The basis for the monitoring conditions was not discussed.

Special Conditions Basis:
The permittee is required to report the precipitation contributing to coal pile runoff (in/day) and the discharge flow rate (MGD) of this runoff. The permit contains a reopener based on the promulgation of effluent limitations representing the application of BCT or BATEA for toxics, if such limitations meet specified conditions. The permittee is required to submit a QA/QC plan for toxicity testing within 45 days of conducting the first toxicity test battery. The permit contains a prohibition of the discharge of PCBs. The permittee is required to identify all stormwater outfalls, delineate areas contributing to the outfalls, and submit a storm water monitoring plan on a schedule provided in the permit. Because the Lamella gravity settlers are not currently in use, the permit contains BMPs associated with the operation of the WPDES treatment plan. For example, the discharge of air preheater or other equipment wash water to the WPDES treatment plant during periods when only one pond is operating is prohibited.

Effective Date: 09/30/91 | Expiration Date: 06/30/96 | Abstract Date: 06/09/93

Facility Name: Shawano Paper Mills | Permit Number: WI0001341

Facility Description: Produces lightweight specialty paper from purchased pulp | SIC Code: 2647

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Partial; Outfalls 001, 002 (representative of 101) and 102.

Outfall: 001 | Receiving Water: Wolf River | Treatment: Floc, CAC

Amount/Components:
2.24 MGD consisting of excess intake water and process wastewater treatment system bypass

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/day	estimate

Limitations/Monitoring Basis:
Only flow monitoring is required at Outfall 001 because limitations apply at Internal Outfall 101. These limitations are the same as those shown for Outfall 002. Monitoring is required at Outfall 101 during bypass events. All outfalls contain a water quality-based prohibition of discharge of floating solids or visible foam in other than trace amounts.

Outfall: 002 | Receiving Water: Wolf River | Treatment: Floc, CAC, PC

Amount/Components:
1.61 MGD consisting of treated process wastewater and groundwater

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
1,2,4,5-Tetrachlorobenzene	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
2,3,7,8-TCDD	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
2,4,6-Trichlorophenol	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
3,3-Dichlorobenzidine	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
4, 4'-DDT	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Acrolein	N/A N/A	Report mg/l N/A		1/year	grab
Acute WET	N/A Report	N/A Report	See below	4/year	grab
Alpha-BHC	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Beta-BHC	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
BHC	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
BOD5	1774.000000 lb/d N/A	3283.000000 lk/d N/A		1/day	24hr fw composite
Chlordane	N/A N/A	Report mg/l N/A		1/year	24hr fw composite

Facility Name: Shawano Paper Mills				Permit Number: WI0001341	
Facility Description: Produces lightweight specialty paper from purchased pulp				SIC Code: 2647	
Chronic WET	N/A Report	N/A Report	See below	2/year	grab
Dieldrin	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Endosulfan sulfate	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Endrin	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		1/day	continuous
Fluoranthene	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Gamma-BHC	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Heptachlor	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Hexachlorobenzene	N/A N/A	N/A Report mg/l		1/year	24hr fw composite
Hg (T)	N/A N/A	Report mg/l N/A		1/year	grab
NH3-N	Report mg/l N/A	Report mg/l N/A		1/quarter	24hr fw composite
P (T)	Report mg/l N/A	Report mg/l N/A		1/quarter	24hr fw composite
PCBs (T)	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
Pentachlorobenzene	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
pH	N/A N/A	N/A Report	Between 5.0 su and 9.0 su	1/day	continuous
Temp.	N/A Report F	N/A Report F		1/week	grab
Toxaphene	N/A N/A	Report mg/l N/A		1/year	24hr fw composite
TSS	1163.000000 lb/d N/A	2276.000000 lb/d N/A		1/day	24hr fw composite

Limitations/Monitoring Basis:
Limitations for BOD5 and TSS are based on state promulgated treatment technology based effluent limitations (Wisconsin Admin. Code NR 284) and are the same as those in the previous permit. Limits for pH are based on State WQSs. The pH values must not be outside the required range for more than 446 minutes in any calendar month. Individual excursions from the required range must not exceed 60 minutes. No individual excursions are allowed outside the range of 4.0 su to 11.0 su. The permittee is required to report any excursion from the limits. Monitoring for temperature, ammonia, P (T), bioaccumulating toxic substances, acute WET and chronic WET are required because toxic substances are known to be present, but are not expected to occur in amounts of significant concern. Acute toxicity testing (48-hr and 96-hr tests) is required 4/year for 2 years and again once during the year prior to permit expiration, following procedures provided in the permit. These procedures include 5 dilutions and 2 species. Control waters are required to be collected upstream from the discharge and within 72 hours of test limitation grab samples. Secondary control waters must have water pH, hardness and alkalinity similar to the receiving water, and must be approved by the Wisconsin DNR prior to use. Renewal frequencies are specified for each test. Species are limited to Ceriodaphnia dubin and fathead minnows for chronic tests; Daphnia magna may be used in place of Ceriodaphnia for acute tests. If one species demonstrates clear sensitivity it may be used alone instead of two species. Additional testing is required if the test results are positive. While these limitations also apply to Internal Outfall 101 to Outfall 001, monitoring for BOD5, flow, TSS, temp. and pH at Outfall 101 is required only during each bypass event using grab samples.

Facility Name: Shawano Paper Mills | Permit Number: WI0001341

Facility Description: Produces lightweight specialty paper from purchased pulp | SIC Code: 2647

Outfall: 102 | Receiving Water: Internal to Outfall 002 | Treatment: None specified.

Amount/Components:
Unspecified amount of discharge from the groundwater collection lift station

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
COD	N/A N/A	Report mg/l N/A		4/year	grab
Flow	N/A N/A	N/A Report MGD	During discharge	1/day	estimate
TDS	N/A N/A	Report mg/l N/A		4/year	grab

Limitations/Monitoring Basis:
Monitoring at Internal Outfall 102 is established to reveal any contamination of the groundwater that may occur, although it is not expected. Leachate would have to pass through a 4-foot clay liner of the landfill for this to happen.

Special Conditions Basis:
The permittee is required to submit a QA/QC control plan on a schedule that sets milestones for approval of the permittee's plan for standard operating procedures for laboratory toxicity testing as well as all aspects of wastewater sampling, handling and transportation of the samples.

Effective Date: 11/01/92 | Expiration Date: 10/31/97 | Abstract Date: 06/03/93

Facility Name: Grande Cheese Company | Permit Number: WI0051764

Facility Description: Processes milk into cheese, and processes whey | SIC Code: 2022

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	-	√	-	√	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	-	√	-	-	-	-	√	√

Abstract Information:
Complete; Outfalls 001, 002, and 003.

Outfall: 001 | Receiving Water: Ridge and furrow system | Treatment: Land

Amount/Components:
7500 gpd process wastewater discharged

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	N/A N/A	N/A Report mg/l		1/week	24hr fw composite
Chloride	N/A N/A	N/A Report mg/l		1/week	24hr fw composite
Flow	N/A 7500.000000 gpd	N/A N/A		continuous	total
K	N/A N/A	N/A Report mg/l		1/month	24hr fw composite
P (T)	N/A N/A	N/A Report mg/l		1/month	24hr fw composite
pH	N/A N/A	N/A Report su		1/month	grab
TKN	N/A N/A	N/A Report mg/l		1/week	24hr fw composite
TSS	N/A N/A	N/A Report mg/l		1/week	24hr fw composite

Limitations/Monitoring Basis:
The limit and monitoring conditions are based on the previous permit and water quality based considerations after review of the monitoring data submitted by the permittee. Monitoring requirements were expanded to include P, K, and pH to aid the facility in assessing the cover crop. Requirements for 24hr composite samples were added to increase management of the ridge and furrow discharges. While the permit does not contain a limitationfor chloride or nitrogen, monitoring for chloride and TKN and a prohibition of exceeding the Wisconsin preventive action limits (PALs) are included in the permit. If the PALs are exceeded, procedures provided in the permit are to be implemented.

Outfall: 002 | Receiving Water: Duck Creek | Treatment: Neut

Amount/Components:
86,100 gpd consisting of water removed from whey by reverse osmosis, water softener backwash, boiler blowdown, and noncontact cooling water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A Report	See below	1/year	24hr fw composite
BOD5	24.000000 lb/d 35.000000 mg/l	N/A 70.000000 mg/l		2/week	24hr fw composite
Chloride	N/A N/A	N/A Report mg/l		26/year	24hr fw composite

Facility Name: Grande Cheese Company | Permit Number: WI0051764

Facility Description: Processes milk into cheese, and processes whey | SIC Code: 2022

Chronic WET	N/A N/A	N/A Report	See below	1/year	24hr fw composite
Cu (T)	N/A N/A	N/A Report mg/l		2/year	24hr fw composite
Flow	N/A N/A	N/A Report gpd		continuous	total
NH3	N/A N/A	N/A Report mg/l		26/year	grab
P (T)	N/A 1.000000 mg/l	0.720000 lb/d N/A		26/year	24hr fw composite
pH	N/A N/A	N/A Report	Between 6.0 su and 9.0 su	26/year	grab
Temp.	N/A N/A	N/A 120.000000 F		26/year	grab

Limitations/Monitoring Basis:
Limitations and monitoring requirements were based on the previous permit, with the following additions. BOD5 monitoring on a 2/week basis was established to conform with other recently issued dairy permits. Chloride monitoring was added to gather data on the water softner discharge. Cu(T) monitoring 2/year was included to gather data for 99th percentile calculation made at permit reissuance. WET testing is required because "no toxicity data on the effluent is on file." Chronic and acute WET testing is required during the first 24 months following procedures provided. Acute WET testing is to be conducted following EPA methods, using primary and secondary control water, 2 samples, 5 dilutions, and 3 species. Chronic WET testing, following EPA methods, is to include primary and secondary control water, 3 samples, 5 dilutions, and 3 species.

Outfall: 003 | Receiving Water: land spreading near Duck Creek | Treatment: Land

Amount/Components:
Unspecified amount consisting of process wastewater, high strength wastewater, waste slurry, whey, brine, permeate, retenate, and contaminated milk.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A N/A	N/A Report mg/l		1/month	grab
Chloride	N/A N/A	N/A Report mg/l		1/month	grab
Flow	N/A N/A	N/A Report gpd		continuous	total
K	N/A N/A	N/A Report mg/l		1/month	grab
P (T)	N/A N/A	N/A Report mg/l		1/month	grab
pH	N/A N/A	N/A Report su		1/month	grab

Limitations/Monitoring Basis:
This outfall was not recognized in the previous permit, but is required with the promulgation of Wisconsin Adm. Code NR 214. The basis for the monitoring conditions was not discussed. The permittee is required to not exceed the preventive action limits (PALs) derived from Wisconsin groundwater quality code (NR 140). If the PALs given in the permit are exceeded, procedures also provided in the permit are to be implemented. The permit addresses the possibility of a separate permit issued to an independent contractor who may landspread the process wastewater.

Special Conditions Basis:
The permittee is required to complete a wastewater study (on a schedule provided in the permit) to determine the orgin of the high strength wastewater being discharged to the ridge and furrow system, as well as develop and implement a plan to divert this flow. The permittee is required to maintain a daily log to track application of the wastewater to the ridges, and the landspreading of wastewater and sludge. This information must be submitted in an annual report which summarizes the application of wastewater, nitrogen, chloride, P, and K. The permit specifies that the wastewater discharged to the land treatment system be applied in cycles of loading andresting. The management plan for monitoring the ridge and furrow system must be updated to reflect current management strategies

Facility Name: Grande Cheese Company	Permit Number: WI0051764
Facility Description: Processes milk into cheese, and processes whey	SIC Code: 2022

and practices by 2/28/93. The permit specifies 8 components of the plan that must be updated. A management plan for optimizing landspreading system performance is required prior to land spreading at any location, and any landspreading site must be approved in advance and incorporated into this management plan. The permittee is required to install an accurate flow measuring device. The permitte is also required to install a spill detector, alarm or conductivity device to detect large fluxes in the system and divert excess wastewater to holding tank. BMPs such as inspection and maintenance of tanks used to hold wastewater are detailed in the permit. Annual reports summarizing site use and application rates pertaining to hydraulics, chloride, and nitrogen (fertilizer) use must be submitted. The permittee is required to perform groundwater monitoring 4/year following procedures given in the permit. The permittee is required to not exceed preventive action limits (PAALs) derived from Wisconsin groundwater quality code (NR 140). If the PALs are exceeded, procedures provided in the permit are to be implemented. A report evaluating the integrity of the groundwater wells must be submitted by May 31, 1993. Soil samples from the ridge and furrow system must be tested annually for P, K, and pH. These results are to be submitted with the annual report. The intent is to aid the permittee in maintaining a healthy cover crop. The permit requires that the volume of wastewater landspread be limited to prevent runoff and ponding. Several site location criteria for landspreading are included in the permit. The permittee is required to submit a QA/QC plan for conducting toxicity testing on a schedule provided.

Effective Date: 12/28/92	Expiration Date: 09/30/97	Abstract Date: 06/09/93

Facility Name: Quaker State Oil Refining Corp | Permit Number: WV0004626

Facility Description: Manufactures finished oil products from Pennsylvania grade crude oil | SIC Code: 2911

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	√	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfalls 001 (A &B for abstracting purposes), 002, and 003.

Outfall: 001A | Receiving Water: Ohio River | Treatment: API, DAF, Aer, Fil, Dis

Amount/Components:
0.559 MGD avg. of crude oil processing and contaminated storm water.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A 2.500000 TUa		1/quarter	24hr fw composite
As (T)	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite
BOD5	245.200000 lb/d Report mg/l	461.600000 lb/d Report mg/l	See below	2/week	24hr fw composite
Chloride	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite
COD	1747.000000 lb/d Report mg/l	3399.200000 lb/d Report mg/l		2/week	24hr fw composite
Cr (T)	1.970000 lb/d Report ug/l	5.590000 lb/d Report ug/l		1/quarter	24hr fw composite
Cr+6	0.190000 lb/d Report ug/l	0.420000 lb/d Report ug/l		1/quarter	24hr fw composite
FC	N/A N/A	200.000000 400.000000	Units: #/100 ml	1/week	grab
Flow	N/A Report MGD	N/A 0.763000 MGD		continuous	recorded
Hardness	N/A N/A	N/A Report mg/l	as CaCO3	1/quarter	24hr fw composite
NH3-N	72.100000 lb/d Report mg/l	157.500000 lb/d Report mg/l		2/week	24hr fw composite
O&G	79.000000 lb/d Report mg/l	151.000000 lb/d Report mg/l	See below	2/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/day	grab
Phenols	1.640000 lb/d Report ug/l	5.810000 lb/d Report ug/l		2/week	grab
Priority pollutan ts	Report lb/d Report ug/l	Report lb/d Report ug/l		1/6 months	grab
SO4	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite
Sulfide	1.010000 lb/d Report mg/l	2.240000 lb/d Report mg/l		2/week	grab
TOC	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite

Facility Name: Quaker State Oil Refining Corp | **Permit Number:** WV0004626

Facility Description: Manufactures finished oil products from Pennsylvania grade crude oil | **SIC Code:** 2911

TSS	211.200000 lb/d Report mg/l	329.500000 lb/d Report mg/l		2/week	24hr fw composite

Limitations/Monitoring Basis:
Outfall 001A was created for abstracting purposes to represent the limitations which apply to Outfall 001 from the period 9/21/91 through 3/20/94. The limits and monitoring requirements for flow, TOC, and As(T) are based on antibacksliding provisions. A discussion of the basis for the original requirements was not provided. The limits for BOD5, COD, TSS, O&G, NH3-N, S, phenols, Cr(T), and Cr+6 are ELG-based, in accordance with petroleum refining category (40 CFR Part 419; Subpart D) based on the 1990 annual throughput. Monitoring for BOD5 must occur after the addition of H202. For O&G, 3 grab samples must be taken at equal time intervals over 24 hrs but no greater than 2 hrs apart and each sample analyzed; the avg. of these samples must be reported. The monitoring requirements for chloride, SO4, and hardness are deemed necessary to collect a data base. The limit for Fecal Coliforms is WQ-based and is equal to the water quality standard. The limit for pH is deemed appropriate to satisfy the water quality standard. The limit for Acute WET is in accordance with the State's Toxic Pollutant Control Permitting Strategy. WET monitoring must be conducted in accordance with procedures set forth in EPA guidance manuals. The basis of the remaining monitoring requirements was not provided.

Outfall: 001B | **Receiving Water:** Ohio River | **Treatment:** API, DAF, Aer, Fil, Dis

Amount/Components:
0.559 MGD avg. of crude oil processing and contaminated storm water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A 2.500000 TUa		1/quarter	24hr fw composite
As (T)	Report lb/d 0.500000 mg/l	Report lb/d 1.000000 mg/l		1/week	24hr fw composite
BOD5	245.200000 lb/d Report mg/l	471.600000 lb/d Report mg/l	See below	2/week	24hr fw composite
Chloride	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite
COD	1747.000000 lb/d Report mg/l	3399.200000 lb/d Report mg/l		2/week	24hr fw composite
Cr (T)	1.970000 lb/d Report ug/l	5.590000 lb/d Report ug/l		1/quarter	24hr fw composite
Cr+6	0.190000 lb/d Report ug/l	0.420000 lb/d Report ug/l		1/quarter	24hr fw composite
FC	N/A 200.000000	N/A 400.000000	Units: #/100ml	1/week	grab
Flow	N/A Report mg/l	N/A Report MGD		continuous	record
Hardness	N/A N/A	N/A Report mg/l	as CaCO3	1/quarter	24hr fw composite
NH3-N	72.100000 lb/d Report mg/l	157.500000 lb/d Report mg/l		2/week	24hr fw composite
O&G	79.000000 lb/d Report mg/l	151.000000 lb/d Report mg/l	See below	2/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Phenols	1.640000 lb/d Report ug/l	5.810000 lb/d Report ug/l		2/week	grab
Priority pollutants	N/A Report mg/l	N/A Report mg/l		1/6 months	grab
SO4	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite

Facility Name: Quaker State Oil Refining Corp | Permit Number: WV0004626

Facility Description: Manufactures finished oil products from Pennsylvania grade crude oil | SIC Code: 2911

Sulfide	1.010000 lb/d Report mg/l	2.240000 lb/d Report mg/l		2/week	grab
TOC	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite
TSS	211.200000 lb/d Report mg/l	329.500000 lb/d Report mg/l		2/week	24hr fw composite

Limitations/Monitoring Basis:
Outfall 001B was created for abstracting purposes to represent the limitations which apply at Outfall 001 from the period of 3/21/94 through 8/20/96. The limitations and monitoring conditions basis is the same as described in 001A, except for As(T). As limits have been developed because past data indicates high levels of As attributed by the facility to the crude oil and brine. The limit for As(T) is BPJ-based on chemical precipitation by lime and settling technology transfer from the inorganic chemicals industry and non-ferrous metal manufacturing industry.

Outfall: 002 | Receiving Water: Ohio River | Treatment: None

Amount/Components:
Unspecified amount of cooling tower blowdown

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A 2.500000 TUa		1/quarter	24hr fw composite
Chloride	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite
COD	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite
Cu (T)	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	recorded
Hardness	N/A N/A	N/A Report mg/l		1/quarter	24hr fw composite
O&G	Report lb/d Report mg/l	Report lb/d 10.000000 mg/l		1/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
TOC	Report lb/d 45.000000 mg/l	Report lb/d 65.000000 mg/l		1/week	24hr fw composite
TRC	Report lb/d Report ug/l	Report lb/d Report ug/l		1/week	grab
TSS	Report lb/d 30.000000 mg/l	Report lb/d 45.000000 mg/l		1/week	24hr fw composite
Zn (T)	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr fw composite

Limitations/Monitoring Basis:
The limits for TSS, O&G, and monitoring requirements for flow, Zn(T), and Cu(T) are based on the past permit. A discussion of the basis for the original limits was not provided. The limit for TOC is BPJ-based in consideration of the use of organic chemicals for cooling water. A description of the limits derivation was not provided, however, these limits are intended to control process leaks and is consistent with an agreement with the permittee. The limit for pH is based on satisfying the State water quality standard. The Acute WET limit is based on the State's Toxic Pollutant Control Permitting Strategy. WET monitoring must be conducted in accordance with procedures set out in EPA guidance manuals. Monitoring for COD, chloride, and hardness is specified to collect data. A discussion of the remaining monitoring conditions was not provided.

Facility Name: Quaker State Oil Refining Corp | **Permit Number:** WV0004626

Facility Description: Manufactures finished oil products from Pennsylvania grade crude oil | **SIC Code:** 2911

Outfall: 003 | **Receiving Water:** Unnamed trib. to Congo Run | **Treatment:** Not described

Amount/Components:
Uncontaminated storm water

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chloride	Report lb/d Report mg/l	N/A N/A		1/month	grab
COD	Report lb/d Report mg/l	Report lb/d Report mg/l		1/month	grab
Flow	N/A Report MGD	N/A Report MGD		1/month	estimate
O&G	Report lb/d Report mg/l	Report lb/d 10.000000 mg/l		1/month	grab
pH	N/A N/A	N/A N/A	Monitor min. and max . su	1/month	grab
TOC	Report lb/d Report mg/l	Report lb/d Report mg/l		1/month	grab
TSS	Report lb/d Report mg/l	Report lb/d Report mg/l		1/month	grab

Limitations/Monitoring Basis:
A discussion of limitations and monitoring requirements was not provided.

Special Conditions Basis:
Within 9 months, the BMP plan must be updated because of changes at the facility and changes to regulations. Additionally, conditions considered good housekeeping practices are specified as important parts of a BMP plan and are identified as having potential to minimize soil contamination, minimize pollutants discharged in storm water, and protect the ground water. These include: 2/week inspection of the oily sewer and the maintenance of a log of the same; 1/week inspection of manufacturing, storage, and loading areas for drippage/leakage and the remediation of the same; inspection of all pumps, lines, and valves for drippage/leakage and the remediation of the same; proper and prompt removal of stained soil and gravel on the facility site; and prevention of overflows through precautions. Schedules are set forth for compliance with 001B conditions by 3/21/94, compliance with the installation of a 1 mgd holding tank, which will support a 10yr, 24hr rainfall event, by 3/21/93, and compliance with the implementation of the groundwater monitoring plan (specific requirements are set out) by 3/21/92; compliance reports must be submitted within 14 days of the milestone date. The facility must also submit, within 6 months, an As treatability and economic analysis study. The latter two conditions are based on the facility's storm water management plan and groundwater management plan as outlined in specifically cited correspondence. Other special conditions and justifications include the following: 1) annual reporting of average daily crude oil processing; this is specified because limits are based on fee raes and changes will dictate the need for permit modifications; 2) a prohibition of bypassing; this is reiterated to emphasize bypass prohibitions; 3) quarterly reporting of removal efficiency of BOD5, TOC, O&G, and COD because this information is needed to evaluate O&M based on specific removal rates cited from the development document; 4) semi-annual monitoring of intake water from each well for COD, TOC, pH, Fe (T), Mn (T), and chloride and the submission of test results within 30 days; this condition is necessary since the facility is using groundwater as makeup water and intake water pollutants must be identified so that they may be discharged; 5) within 60 days, the removal of stained soil and gravel in the unnamed tributary to the Congo Run and monthly inspection of the weir prior to the unnamed tributary; these conditions result from oily sediment and solids build-up which are problems noted in previous inspections; and 6) a prohibition of untreated cooling tower blowdown (pH outside 6-9 su); this condition is necessary due to high dissolved metals concentrations present in low pH blowdown waters.

Effective Date: 09/21/91 | **Expiration Date:** 08/20/96 | **Abstract Date:** 05/24/93

Facility Name: U CAR Carbon Co., Inc. | Permit Number: WV0004707

Facility Description: Production of carbon and graphite electrodes, anodes, and specialty pr | SIC Code: 3624

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	√	-	-	√	√

Abstract Information:
Partial; 003, 006, 009, 010 (representing 011, 013-048)

Outfall: 003 | Receiving Water: Ann Moore Run | Treatment: Not described.

Amount/Components:
0.046 MGD daily avg. of contact cooling water, non-contact cooling water, water softener backwash, groundwater, and storm water runoff.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Chloride	Report lb/d Report mg/l	Report lb/d 250.000000 mg/l		2/month	grab
COD	Report lb/d Report mg/l	Report lb/d Report mg/l		2/month	grab
Fe (T)	Report lb/d Report mg/l	Report lb/d 1.500000 mg/l		2/month	grab
Flow	N/A Report mg/l	N/A Report MGD		2/month	estimate
O&G	Report lb/d 10.000000 mg/l	Report lb/d 15.000000 mg/l		2/month	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	2/month	in-situ
Temp.	N/A Report F	N/A Report F		2/month	in-situ
TOC	Report lb/d Report mg/l	Report lb/d Report mg/l		2/month	grab
TSS	Report lb/d 30.000000 mg/l	Report lb/d 60.000000 mg/l		2/month	grab

Limitations/Monitoring Basis:
The monitoring requirements for flow and temp. are based on the past permit; flow monitoring requirements are also consistent with 46 CSR 6.3.h.1.ii. The limits for TSS are BPJ-based, and constitute a performance standard for sedimentation. Limits for Fe(T) and chlorides are WQ-based, and are equal to the water quality standards. The chloride limit was deemed acheivable through controlled discharge of water softener backwash. The limit for O&G are BPJ-based on treatment technology performance; these limits also ensure against violation of Series I, Sect. 3 of the West Virginia legislative rules. The pH limits are that necessary to satisfy the applicable water quality standard. The monitoring requirements for COD and TOC are deemed necessary to collect data. The basis on the remaining monitoring conditions was not described.

Outfall: 006 | Receiving Water: Unnamed trib. to Ann Moore Run | Treatment: Not described

Amount/Components:
0.009 MGD daily max. of non-contact cooling water and groundwater from sump.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
COD	N/A N/A	Report lb/d Report mg/l		1/month	grab
Fe (T)	N/A N/A	Report lb/d 1.500000 mg/l		1/month	grab

Facility Name: U CAR Carbon Co., Inc. | Permit Number: WV0004707

Facility Description: Production of carbon and graphite electrodes, anodes, and specialty pr | SIC Code: 3624

Flow	N/A N/A	N/A Report MGD		1/month	estimate
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/month	in-situ
Temp.	N/A N/A	N/A Report mg/l		1/month	instream
TOC	N/A N/A	Report lb/d Report mg/l		1/month	grab
TSS	N/A N/A	Report lb/d 60.000000 mg/l		1/month	grab

Limitations/Monitoring Basis:
The monitoring requirements for flow, COD, TOC, and temp. are deemed necessary to collect data; flow monitoring requirements are consistent with 46 CSR 6.3.h.1.ii. The limit for TSS is BPJ-based, and constitutes a performance standard for sediment-action. The limit for Fe(T) is WQ-based and is set equal to the water quality standard. The limits for pH are deemed appropriate to satisfy the water-quality standard.

Outfall: 009 | Receiving Water: Ann Moore Run | Treatment: Not described

Amount/Components:
0.42 MGD daily avg. of non-contact cooling water, storm water runoff, water softener backwash, and wet scrubber water.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Chloride	Report lb/d Report mg/l	N/A 250.000000 MGD		2/month	grab
COD	Report lb/d Report mg/l	Report lb/d Report mg/l		2/month	grab
Fe (T)	Report lb/d Report mg/l	N/A 1.500000 mg/l		2/month	grab
Flow	N/A Report MGD	N/A Report MGD		2/month	estimate
O&G	Report lb/d 10.000000 mg/l	N/A 15.000000 mg/l		2/month	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	2/month	in-situ
Temp.	N/A Report F	N/A Report F		2/month	in-situ
TOC	Report lb/d Report mg/l	Report lb/d Report mg/l		2/month	grab
TRC	Report lb/d Report mg/l	Report lb/d Report mg/l		2/month	grab
TSS	Report lb/d 30.000000 mg/l	N/A 60.000000 mg/l		2/months	grab

Limitations/Monitoring Basis:
The monitoring requirements for flow and temp. are based on the past permit; flow monitoring requirements are consistent with 46 CSR 6.3.h.ii. The limits for COD, TRC, and TOC were deemed necessary to collect adequate data. The limits for TSS are BPJ-based, and constitute a performance standard for sedimentation. The limits for Fe(T) and chloride are WQ-based and are equal to the water quality standard; the chloride limit was deemed achievable through controlled discharge of softener backwash. The limits for O&G are BPJ-based on treatment technology performance. These limits also ensure against violations of Series I, Section 3 of the WV Legislative Rules. The limits for pH are deemed necessary to satisfy the applicable water quality standard.

Facility Name: U CAR Carbon Co., Inc. | Permit Number: WV0004707

Facility Description: Production of carbon and graphite electrodes, anodes, and specialty pr | SIC Code: 3624

Outfall: 010 | Receiving Water: Ann Moore Run | Treatment: Not described

Amount/Components:
0.029 MGD daily avg stormwater runoff from Green Carbon Storage Lot/Silo storage Area and road drains.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Chloride	N/A N/A	Report lb/d Report mg/l		1/quarter	grab
COD	N/A N/A	Report lb/d Report mg/l		1/quarter	grab
Fe (T)	N/A N/A	Report lb/d Report mg/l		1/quarter	grab
Flow	N/A N/A	N/A Report MGD		1/quarter	estimate
O&G	N/A N/A	Report lb/d Report mg/l		1/quarter	grab
pH	N/A N/A	N/A N/A	Report min. and max. su	1/quarter	in-situ
TOC	N/A N/A	Report lb/d Report mg/l		1/quarter	grab
TSS	N/A N/A	Report mg/l Report mg/l		1/quarter	grab

Limitations/Monitoring Basis:
Since monitoring at 38 storm water discharges is expensive and cumbersome, monitoring is only required at 5 representative outfalls (including 010). The current permit requires monitoring at storm water outfalls for TSSand flow only. The parameters above are designated since there is no data base for adequate characterization of storm water discharges.

Special Conditions Basis:
The permit requires semi-annual grab sampling at specified upstream and downstream locations within the receiving water reaches and analysis for pH, TSS, COD, TOC, O&G, DO, Fe (T), TRC, and PAHs, and visual inspection for and recording of any oily sheen. Toxicity testing of Ann Moore Run is also specified. These conditions were required to evaluate impacts of all discharges on the water quality of the stream. An annual benthic survey at specified upstream and downstream reaches in Ann Moore Run is required; the survey must be conducted in accordance with procedures set forth in the permit and in a specific EPA guidance manual. This condition is designed to evaluate any long term impacts of all discharges and is specified due to a past study showing an extremely stressed benthic population. A potential reduction in monitoring is also provided as a special condition and is intended to allow for the reduction of monitoring where no adverse water quality can be demonstrated. Semi-annual groundwater monitoring for pH, chloride, COD, TOC, Fe (T), and PAHs is set forth; specific PAHs are listed in the permit. This condition is justified since the facility is more than 85 years old. The permit prohibits the discharge of water softener backwash (Outfall 009) as a slug; rather this discharge must be released ata controlled rate. This condition is intended to prevent adverse impacts of high chloride concentrations. The permit also prohibits the discharge of PCBs. This condition is set forth because of the potential for spills from electrical transformers (containing less than 50 ppm PCBS) which are stored on site.

Effective Date: 09/13/90 | Expiration Date: 08/12/95 | Abstract Date: 05/24/93

Facility Name: Wampler-Longacre Chicken, Inc.	Permit Number: WV0005495
Facility Description: Chicken processing, packaging, and shipping.	SIC Code: 2019

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	√	-	√	-	√	√

Abstract Information:
Complete; 001.

Outfall: 001 | Receiving Water: S.Fork of S.Branch of PotomacR | Treatment: Scr, Eq, DAF, Floc, AS, Dis, De

Amount/Components:
1.05 MGD of process boiler blowdown, sanitary, truck wash, and storm waters.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A 1.000000 TUa		1/quarter	24hr composite
Al (T)	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	24hr composite
BOD5	226.400000 lb/d Report mg/l	452.800000 lb/d Report mg/l		1/week	24hr fw composite
Chloride	N/A N/A	Report lb/d Report mg/l		1/month	24hr composite
Chronic WET	N/A N/A	N/A 5.350000 TUc		1/6 months	24hr composite
COD	N/A N/A	Report lb/d Report mg/l		1/month	24hr composite
DO	N/A Report mg/l	N/A Report mg/l	min. 5.0 mg/l	1/week	grab
FC	N/A 200.000000	N/A 400.000000	Units: #/100ml	1/week	grab
Flow	N/A Report MGD	N/A 1.050000 MGD		continuous	record
NH3	Report lb/d Report ug/l	1.000000 lb/d Report ug/l	See below	1/week	calculate
NH3-N	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	grab
NO2	N/A N/A	Report lb/d Report mg/l		1/month	grab
NO3	N/A N/A	Report lb/d Report mg/l		1/month	grab
O&G	98.400000 lb/d Report mg/l	196.900000 lb/d Report mg/l		1/week	grab
P (T)	N/A N/A	Report lb/d Report mg/l		1/month	24hr composite
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/week	grab
SO4	N/A N/A	Report lb/d Report mg/l		1/month	24hr composite
Sulfide	N/A N/A	Report lb/d Report mg/l		1/month	grab

Facility Name: Wampler-Longacre Chicken, Inc. Permit Number: WV0005495

Facility Description: Chicken processing, packaging, and shipping. SIC Code: 2019

Temp.	N/A Report C	N/A Report C		1/week	in-situ
TKN	Report lb/d Report mg/l	Report lb/d Report mg/l		1/week	grab
TOC	N/A N/A	Report lb/d Report mg/l		1/month	24hr composite
TRC	Report lb/d Report ug/l	Report lb/d 53.000000 ug/l		1/week	grab
TSS	305.200000 lb/d N/A	610.300000 lb/d Report mg/l		1/week	24hr composite

Limitations/Monitoring Basis:

The flow limit is based on actual flow data and performance of the treatment system. Limits for BOD5, O&G, and TSS are BPJ-based and incorporated from the previous permit. Despite processing increases by almost 20%, these mass effluent limits are not changed; this mainly due to the recent upgrade of the wastewater treatment system. Monitoring for COD, TOC, NO3, NO2, Al (T), chloride, sulfide, P (T), and SO4 is required in order to collect a database to determine if these parameters should be limited. Information on Al (T) in the effluent is sought because aluminum chloride is used in the DAF unit. TKN monitoring is incorporated from the previous permit. Monitoring for NH3-N and temp. is required to calculate the concentration of NH3 (un-ionized) in the discharge; NH3 (un-ionized) is calculated via a specific formula provided in the permit. Limits for NH3 (un-ionized), TRC, and FC are WQ-based. The FC limits are equal to the WQS. WET limits are set in accordance with the State Toxic Pollutant Control Permitting Strategy. WET testing must be conducted in accordance with procedures set in EPA guidance manuals; species and dilutions are specified. Retesting within 30 days is required if limits are exceeded; if retest results exceed limits, a TRE must be submitted within 30 or 60 days depending on if the acute or chronic limits are exceeded. Testing may be reduced (or discontinued if chronic) if no toxicity is found. The chronic toxicity limit is equal to the instream waste concentration and was deemed necessary because of the presence of two other proximate discharges. The limit for DO was determined appropriate as an indicator parameter for adequate treatment of high BOD5 wastewater. The pH limits are set to satisfy applicable WQs. The 24hr composite samples may be flow- or time- weighted.

Special Conditions Basis:

Production information on the number of chickens killed daily and the average daily weight of live poultry killed (lb/d) and average daily production of rendered products must be submitted quarterly. This requirement is set forth because the proposed effluent guidelines for the poultry segment of Meat Products and Rendering Process point source category (40 CFR Part 432, Subpart J) are based on live weight of poultry killed daily. The permittee must monitor the receiving water upstream and downstream for pH, temp., DO, NH3 (T), NO3, and NO2 because the South Fork is an effluent dominated stream with other discharges close to the plant; data must be submitted along with the DMRs. The permittee must report quarterly, the percentage removal efficiency for BOD5, TSS, O&G, NH3 (T), and TKN to ensure that adequate treatment is being provided. Monitoring requirements may be eliminated for Al (T), SO4, P (T), and sulfide once adequate data is gathered. If any stormwater discharges associated with industrial activity ae present, the permit may be modified to include monitoring and limitations in accordance with stormwater regulations.

Effective Date: 07/28/91 Expiration Date: 06/27/96 Abstract Date: 04/14/93

Facility Name: Concast Metal Products Company | Permit Number: WV0042641

Facility Description: Manufactures metal bars, rods, tubes, and shapes from melted bronze | SIC Code: 3341

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	√	-	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	-	√

Abstract Information:
Complete; Outfalls 001, and 003.

Outfall: 001 | Receiving Water: Ditch to Tygart Valley River | Treatment: Dis

Amount/Components:
1050 gpd of sanitary wastewater

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
BOD5	0.260000 lb/d 30.000000 mg/l	0.520000 lb/d 60.000000 mg/l	See below	1/year	8hr fw composite
FC	N/A 200.000000	N/A 400.000000	Units: #/100 ml	1/year	grab
Flow	N/A N/A	N/A 1050.000000 gpd		1/year	measure
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/year	grab
TKN	0.160000 lb/d 18.000000 mg/l	0.320000 lb/d 36.000000 mg/l		1/year	8hr fw composite
TSS	0.260000 lb/d 30.000000 mg/l	0.520000 lb/d 60.000000 mg/l		1/year	8hr fw composite

Limitations/Monitoring Basis:
Limits for flow, BOD5, TSS, TKN, and FC are incorporated from the previous permit and are based upon State Program Management through the waste load allocation process. The basis of the monitoring conditions was not described. The BOD5 sampling location was specified as immediatedly preceding disinfection.

Outfall: 003 | Receiving Water: Ditch to Tygart Valley River | Treatment: None

Amount/Components:
Unspecified amount of storm water from the NW facility downspout.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Cu	N/A N/A	N/A Report mg/l		1/6 months	grab
Flow	N/A N/A	N/A Report gpd		1/6 months	estimate
O&G	N/A N/A	N/A Report mg/l		1/6 months	grab
Pb	N/A N/A	N/A Report mg/l		1/6 months	grab

Facility Name: Concast Metal Products Company					Permit Number: WV0042641
Facility Description: Manufactures metal bars, rods, tubes, and shapes from melted bronze					SIC Code: 3341
pH	N/A N/A	N/A N/A	Between 6.0 su and 9 .0 su	1/6 months	grab

Limitations/Monitoring Basis:
Monitoring requirements are based on the potential for pollutants form particulate air emissions to settle on the roof particularly since air emission control are not currently in place, and thereby come into contact withrainfall as the roof downspout discharges. The limits for pH are set to satisfy West Virginia Legislative Rules, Title 46, Series I, Appendix E.

Special Conditions Basis:
The permit contains a requirement to remove and properly dispose of all contaminated soil on the property and all graphite dust piles on the property. This rrequirement is based on the results of a field review during which housekeeping problems were noted and an oily area of soil and piles of graphite dust were discovered. The facility proceeded to remove and dispose of contaminated soil and graphite, but had not completed removal at the time the permit was issued. Therefore the requirement was included to ensure completion.

Effective Date: 02/25/93 Expiration Date: 02/24/98 Abstract Date: 04/19/93

Facility Name: Frontier Refining, Inc. | Permit Number: WY0000442

Facility Description: Oil refinery | SIC Code: 2911

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	-	-	√	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	√	-	-	-	-	-	-	√

Abstract Information:
Partial; Outfalls 003 and 005. Outfalls 001 and 002 are inactive; limits for 003 apply to the combined discharge from 003 and 004.

Outfall: 003 | Receiving Water: Crow Creek | Treatment: API+EQ+DAF+BioR

Amount/Components:
Unspecified amount of treated process and storm water.

	Limitations			Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A N/A	See below	1/quarter	8hr fw composite
BOD5	328.000000 lb/d N/A	591.000000 lb/d N/A		1/week	8hr fw composite
COD	2283.000000 lb/d N/A	4419.000000 lb/d N/A		1/month	8hr fw composite
Cr (T)	2.600000 lb/d N/A	7.300000 lb/d N/A		1/month	8hr fw composite
Cr+6	0.230000 lb/d N/A	0.500000 lb/d N/A		1/month	8hr fw composite
Flow	N/A Report MGD	N/A Report MGD		continuous	total
NH3-N	157.000000 lb/d N/A	345.000000 lb/d N/A		1/week	8hr fw composite
O&G	96.000000 lb/d N/A	181.000000 lb/d N/A	10 mg/l inst. max.	1/week	grab
pH	N/A N/A	N/A N/A	Between 6.0 su and 9.0 su	1/day	grab
Phenols	2.200000 lb/d N/A	4.400000 lb/d N/A		2/month	grab
Sulfide	1.500000 lb/d N/A	3.400000 lb/d N/A		2/month	grab
Temp.	N/A N/A	N/A N/A		1/day	instantaneous
TSS	263.000000 lb/d N/A	412.000000 lb/d N/A		1/week	8hr fw composite

Limitations/Monitoring Basis:
All limits apply to the total quantity of pollutants from outfalls 003 and 004. All numerical limits, with the exception of the pH and inst. max. O&G limits, are based on ELGs (40 CFR Part 419). The inst. max. O&G limitapplies individually to outfalls 003 and 004. The bases for the pH and inst. max. O&G limit are not provided. Monitoring requirements must be performed separately at 003 and 004. In addition, effective July 1, 1992, there shall be no acute toxicity in the discharge from outfall numbers 003 and 004. Because the discharges are to Class 4 waters, the State requires only acute, rather than chronic, testing. WET testing must be conducted 1/quarter in accordance with procedures set forth in EPA guidence manuals and regional policy. Retesting must be conducted within 4 weeks where toxicity is evident; 1/month monitoring is required where 2 consecutive resultsshow toxicity. Monitoring requirements may be reduced where no toxicity is found. The basis of the monitoring conditions was not described.

Facility Name: Frontier Refining, Inc. Permit Number: WY0000442

Facility Description: Oil refinery SIC Code: 2911

Outfall: 005 | Receiving Water: Crow Creek | Treatment: None

Amount/Components:
Unspecified amount of overflow from storm retention basin.

Parameter	Limitations			Monitoring Requirements	
	Monthly Average	Maximum	Other	Frequency	Sample Type
Flow	N/A N/A	N/A N/A	See below	1/discharge	estimate
O&G	N/A N/A	N/A N/A	shall not exceed 10 mg/l	1/discharge	grab
TOC	N/A N/A	N/A N/A	shall not exeed 110 mg/l	1/discharge	grab

Limitations/Monitoring Basis:
Discharge from outfall 005 is allowed only where runoff exceeds the quantity resulting from a 10yr, 24hr precipitation event (2.4 inches). Should such an event occur, the discharge must be reported to the State, grabsamples must be collected and analyzed for O&G and TOC, an estimate of the flow must be provided, and a report describing the event must be provided to the State within 30 days which includes all of the requiredinformation. The basis of the limitations was not described.

Special Conditions Basis:
By August 1, 1994, 100% of the natural runoff which originates on the refinery property or which flows onto the refinery property must be routed through the wastewater collection and treatment system. This special condition is set forth to address 100% of the storm water discharge due to new regulations which cover storm water.

Effective Date: 07/31/91 Expiration Date: 07/31/96 Abstract Date: 04/27/93

Facility Name: Union Oil Company | Permit Number: WY0001171

Facility Description: Oil extraction and recovery facility | SIC Code: 1311

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	=	√	√	=	√	=	=	=	=

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	=	=	=	=	=	=	=	=	=

Abstract Information:
Complete/Outfall 001

Outfall: 001 | Receiving Water: Little Popo Agie River | Treatment: Not described.

Amount/Components:
1.5 MGD of formation and/or secondary recovery waters.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Acute WET	N/A N/A	N/A N/A	See below	1/year	grab
Flow	N/A N/A	1.500000 MGD N/A		1/6 months	instantaneous
O&G	N/A N/A	N/A 10.000000 mg/l		1/month	grab
pH	N/A N/A	N/A N/A	Between 6.5 su and 8 .5 su		
Radium (226)	N/A N/A	N/A 17.000000	Units: pCi/l	1/year	grab
Specific conductance	N/A N/A	N/A 7500.000000	Units: umhos/cm		

Limitations/Monitoring Basis:
The limit for Radium 226 is based on WQ criteria for the receiving stream. An acute WET limit of no toxicity is based on a State requirement to include some type of toxicity prohibition in permits of this type. WET testing must be conducted in accordance with EPA guidance manuals and regional policy; 100% effluent is specified. Retesting within 4 weeks is required where toxicity is evident; 1/month testing is required if 2 consecutive tests show toxicity. The basis for the flow limitation was not provided. The permit did not specify monitoring requirements for pH and specific conductance. Monitoring requirements for O&G are specified based on the discharge affecting the water. The basis of the remaining conditions was not discussed.

Special Conditions Basis:
No special conditions were included in the permit.

Effective Date: 07/01/92 | Expiration Date: 06/30/97 | Abstract Date: 04/23/93

Facility Name: Pacficorp dba Pacific P&L, Dav | Permit Number: WY0003115

Facility Description: Coal-fired steam electric power generation plant | SIC Code: 4931

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	√	√	-	√	√	-	-	-	√

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	√	√	-	-	-	-	-	√	√

Abstract Information:
Partial; Outfalls 001 (representing 001-006), 007 (representing 007-008), 011, and 020.

Outfall: 001 | Receiving Water: North Platte River | Treatment: Not described.

Amount/Components:
200 MGD of condenser cooling water, and discharge from the recirculation canal.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Flow	N/A N/A	N/A N/A	See below	continuous	record
TROs	N/A N/A	N/A N/A	See below	see below	see below

Limitations/Monitoring Basis:
Because the facility uses both chlorine and bromine as oxidants, a limit is established for TRO for the combination of discharge points 001-006. The combined TRO shall not exceed 1.84 kg/d nor shall the flow weighted concentration exceed 0.05 mg/l at any time. The discharge of oxidants is also limited to no more than 2 hours per day from any single operating unit. Monitoring for total residual oxidant must be performed in accordance wit specified procedures, and must be calculated from recordings on each day that bromine and/or chlorine is applied. Limitations for flow and temp. were not included due to a 316(a) study conducted by the company. In addition, no monitoring of effluent temp. is required due to a large volume of background data. However, monitoring of instream temp. is required. Monitoring for flow is required for the combined discharges of outfalls 001-006, and the max., avg. and min. values must be reported. The basis of the limitations for TRO and the monitoring requirements for all parameters was not described.

Outfall: 007 | Receiving Water: North Platte River | Treatment: FL

Amount/Components:
Unspecified amount of plant drains, coal pile runoff, low volume wastes, Outfall 020 discharge, metal cleaning wastes, and scrubber blowdown.

Parameter	Limitations: Monthly Average	Limitations: Daily Maximum	Limitations: Other	Monitoring Requirements: Frequency	Monitoring Requirements: Sample Type
Cu (T)	N/A N/A	N/A 1.000000 mg/l		1/month	grab
FC	N/A 1000.000000	N/A 4000.000000	Units: #/100 ml;see below	1/month	grab
Fe (T)	N/A N/A	N/A 1.000000 mg/l		1/month	grab
Flow	N/A N/A	N/A N/A		1/week	instantaneous
O&G	N/A N/A	N/A 10.000000 mg/l		continuous	visual
pH	N/A N/A	N/A N/A	Between 6.0 and 9.0 su	1/week	grab
TSS	N/A 30.000000 mg/l	N/A 100.000000 mg/l		1/week	grab

Limitations/Monitoring Basis:
The weekly avg. FC limit is 2,000/100 ml. Limits are based on national "Best Available Treatment" and limits carried over from the previous permit. The basis of the monitoring requirements was not described.

Facility Name: Pacficorp dba Pacific P&L, Dav | Permit Number: WY0003115

Facility Description: Coal-fired steam electric power generation plant | SIC Code: 4931

Outfall: 011 | Receiving Water: North Platte River | Treatment: Not discussed.

Amount/Components:
Unspecified amount of emergency overflow from sump.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Flow	N/A Report MGD	N/A Report MGD		1/day	instantaneous
O&G	N/A Report mg/l	N/A Report mg/l		1/day	grab
pH	N/A N/A	N/A N/A	Report min. and max. su	1/day	grab
TSS	N/A Report mg/l	N/A Report mg/l		1/day	grab

Limitations/Monitoring Basis:
Discharge at this outfall is permitted only under emergency situations. When a discharge occurs, monitoring must be performed daily. In additon, the permittee must immediately notify the State and must submit a report and mitigation plan. The basis of the monitoring requirements was not discribed.

Outfall: 020 | Receiving Water: Internal via 007 or 008 | Treatment: Not discussed.

Amount/Components:
Unspecified amount of sewage treatment plant discharge

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
BOD5	N/A 30.000000 mg/l	N/A 90.000000 mg/l	45 mg/l weekly avg.	1/month	grab

Limitations/Monitoring Basis:
Limits are intended to ensure that discharge meets "National Secondary Discharge Standards for BOD" prior to discharge to the ponds. The basis of the monitoring requirements was not described.

Special Conditions Basis:
The permit includes 11 special conditions: (1) Cooling tower operational procedures to ensure instream water temperature requirements are not exceeded; (2) dam operation requirements to ensure TSS and silt control; (3) Exemption from State instream temp. WQS based on the results of a 316(a) study; (4) a requirement to continuously monitor instream water temp.; (5) a requirement to notify the State when instream temp. reaches 78 degrees F;(6) a prohibition of PCB discharge; (7) a prohibition of the discharge of any priority pollutants in accordance with ELGs (40 CFR Part 423). (8) a prohibition of acute toxicity in the discharge of the combined outfalls 001-008; (9) requirements to conduct acute WET testing at least 1/quarter on a flow weighted grab sample from outfalls 001-008 where samples must be collected when TRO concentrations are at their highest. Acute WET testingand reporting must be conducted in accordance with EPA guidance manual procedures and regional policy. 100 effluent is specified. Retesting must be conducted within 4 weeks where toxicity is evident; 1/month monitoring is required if 2 consecutive tests show toxicity. Monitoring requirements may be reduced where no toxicity is found. (11) Requirements to implement stormwater BMPs by 1/1/95 such that no violation of WQS occur; and 12) a phibition of discharge from cooling tower discharge.

Effective Date: 03/01/92 | Expiration Date: 02/28/97 | Abstract Date: 04/26/93

Facility Name: Union Pacific RR, Laramie Tie | Permit Number: WY0032590

Facility Description: Remedial cleanup of a railroad tie treatment plant site | SIC Code: 2491

Limit Basis:	ELGs	WQSs	BPJ	Monitoring Only	WET Limits	WET Testing Only	Multiple Categories	Tiered Limits	Other
	-	√	√	-	√	-	-	-	-

Special Conditions:	BMPs	Storm Water	Sediment	WQ Survey	Bio Survey	TRES	MDLs	Monitoring	Other
	-	-	-	-	-	-	-	√	-

Abstract Information:
Partial; Outfall 001 only (abstract information applies to combined flow from 001 and 002).

Outfall: 001 | Receiving Water: Laramie River | Treatment: PC, Abs, GAC

Amount/Components:
Unspecified amount of treated wastewater from cleanup site, and uncontaminated water from outside drainlines.

	Limitations			Monitoring Requirements	
Parameter	Monthly Average	Daily Maximum	Other	Frequency	Sample Type
Acute WET	N/A N/A	N/A N/A	See below	1/quarter	8hr fw composite
As (T)	N/A 0.005000 mg/l	N/A N/A		1/month	8hr fw composite
Chronic WET	N/A N/A	N/A N/A	See below	1/quarter	8hr fw composite
Cu (T)	N/A 0.093000 mg/l	N/A N/A		1/month	8hr fw composite
Fe (T)	N/A 2.550000 mg/l	N/A N/A		1/month	8hr fw composite
Flow	N/A N/A	N/A Report		continuous	total
Pentachlorophenol	N/A N/A	N/A 0.126000 mg/l		1/month	grab
pH	N/A N/A	N/A N/A	Between 6.0 and 9.0 su	1/month	grab
Phenols	N/A N/A	N/A 25.400000 mg/l		1/month	grab
TDS	N/A 9600.000000 mg/l	N/A N/A		1/month	8hr fw composite
TPH	N/A N/A	N/A 10.000000 mg/l		1/month	grab
Zn (T)	N/A 0.650000 mg/l	N/A N/A		1/month	8hr fw composite

Limitations/Monitoring Basis:
All limits and monitoring are based on the combined flow weighted discharges for points 001 and 002. The limit for As (T) was developed based on WQ criteria; however, since the calculated limit was below the analytical detection level, the limit was set at the detection level. The limits for Cu (T), Fe (T); Zn (T), phenols, and pentachlorophenol are based on WQ criteria and were developed assuming that instream concentrations were equal to one half of the analytical detection level and assuming a 1:9 dilution with the receiving stream. The TDS limit was based on requirements for the use of the receiving stream for irrigation. The TPH and pH limits are based on BPJ; TPH is considered a better indicator than O&G for non-crude oil such as that found onsite and the pH limits are used for all discharges in the State. Chronic and acute WET limits of no toxicity were developed to prevent instream tocicity based on the 1:9 dilution ratio. Specific protocols in accordance with EPA guidance manuals and regional policy for chronic and acute WET testing are also provided. Retesting where acute o chronic toxicity is evident; 1/month acute WET testing is required if 2 consecutive acute WET tests show toxicity. WET monitoring requirements may be reduced where no toxicity is found.

Special Conditions Basis:
Monitoring of the receiving stream flow on a weekly basis is required in order to ensure required dilution is provided.

Effective Date: 06/28/91 | Expiration Date: 06/30/96 | Abstract.Date: 04/23/93

Facility Name: Union Pacific RR, Laramie Tie	Permit Number: WY0032590
Facility Description: Remedial cleanup of a railroad tie treatment plant site	SIC Code: 2491

APPENDIX A

TREATMENT TECHNOLOGY ABBREVIATIONS

TREATMENT TECHNOLOGY ABBREVIATIONS

AAS	—	Activated alumina sorption
Abs	—	Absorbent
Aer	—	Aeration
AerD	—	Aerobic digestion
AerL	—	Aerated lagoon
AFF	—	Aerobic fixed film
AirS	—	Air stripping
AnD	—	Anaerobic digestion
AnFF	—	Anaerobic fixed film
AnL	—	Anaerobic lagoon
API	—	Oil and water separator
AS	—	Activated sludge treatment (including sedimentation)
BGAC	—	Biological granular activated carbon
BiMaSe	—	Biomagnetic separation
BioR	—	Bioreactor
CAC	—	Chemically assisted clarification
ChOx	—	Chemical oxidation
ChOx/Pt	—	Chemical oxidation/precipitation
ChPt	—	Chemical precipitation
DAF	—	Dissolved air flotation
DeCl	—	Dechlorination
Def	—	Defoamer
Direct O2 Injec	—	Direct oxygen injection
Dis	—	Disinfection
Ele	—	Electrodialysis
EQ	—	Equalization
Fil	—	Filtration
FL	—	Facultative lagoon

GAC	—	Granular activated carbon
HT	—	Heat treatment
IE	—	Ion exchange
KPEG	—	Dechlorination of toxics
Neut	—	Neutralization
PACT	—	Powdered activated carbon addition to AS
PC	—	Primary clarification
PF	—	Primary plus filtration
RBC	—	Rotating biological contactor
Red	—	Reduction
RO	—	Reverse osmosis
SBR	—	Sequential batch reactor
SCOx	—	Super critical oxidation
Scr	—	Screening
Sed	—	Sedimentation
SExt	—	Solvent extraction
SS	—	Steam stripping
TF	—	Trickling filter
UF	—	Ultrafiltration
UV	—	Ultraviolet radiation
WOx	—	Wet air oxidation

APPENDIX B

PARAMETERS PRESENT IN THE PERMITS

PARAMETERS PRESENT IN PERMITS

Conventional	Conventional
Biochemical oxygen demand (5-day)	BOD_5
Fecal coliform	FC
Oil and grease	O&G
pH	pH
Total suspended solids	TSS
Non-conventional	Non-conventional
Acidity	Acidity
Alkalinity	Alkalinity
Ammonia	NH_3
Ammonia nitrogen (Total)	NH_3 (T)
Ammonia nitrogen (un-ionized)	NH_3 (un-ionized)
Ammonia as nitrogen	NH_3-N
Ammonium ion	NH_4+
Boron	B
Boron (DS)	B (DS)
Bromide	Br
Calcium	Ca
Carbon disulfide	CS_2
Carbonaceous biochemical oxygen demand	$CBOD_5$
Chemical oxygen demand	COD
Chloride	Cl
Coliform (Total)	Coliform (T)
Color	Color
Dissolved oxygen	DO
Dissolved solids (Total)	TDS
Fecal Streptococci	FS
Filterable residue (T)	Filterable residue (T)
Fluoride	Fluoride
Free available chlorine	FAC
Hardness	Hardness
Nitrite nitrogen	NO_2
Nitrite nitrogen as nitrogen	$NO_{2\text{-}N}$
Nitrate nitrogen	NO_3
Nitrate nitrogen as nitrogen	$NO_{3\text{-}N}$
Nonfilterable residue (Total)	Nonfilterable residue (T)
Organic nitrogen	Organic-N
Orthophosphate	Orthophosphate
Palladium	Palladium
Phosphorous (Total)	P (T)
Potassium	K
Salinity	Salinity
Settleable solids	SS
Silica	Silica
Sodium	Na
Sodium nitrite	Sodium nitrite
Sulfate (Total)	SO_4

PARAMETERS PRESENT IN PERMITS

Non-conventional (Continued)	Non-conventional (Continued)
Sulfate (dissolved)	SO_4 (DS)
Sulfides	Sulfides
Sulfite	SO_3
Temperature	Temp.
Total kjeldahl nitrogen (combined organic-N & NH_3-N)	TKN
Total nitrogen	N(T)
Total organic carbon	TOC
Total oxidized nitrogen (combined NO_2 & NO_3)	TON
Total residual chlorine	TRC
Turbidity	Turbidity
Organics	**Organics**
1,1,1-Trichloroethane	1,1,1-Trichloroethane
1,1,2-Trichloroethane	1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
1,1-Dichloroethane	1,1-Dichloroethane
1,1-Dichloroethylene	1,1-Dichloroethylene
1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene
1,2,4,5-Tetrachlorobenzene	1,2,4,5-Tetrachlorobenzene
1,2-Cis-Dichloroethylene	1,2-Cis-Dichloroethylene
1,2-Dichlorobenzene	1,2-Dichlorobenzene
1,2-Dichloroethane	1,2-Dichloroethane
1,2-Dichloropropane	1,2-Dichloropropane
1,2-Dichloropropylene	1,2-Dichloropropylene
1,2-Diphenylhydrazine	1,2-Diphenylhydrazine
1,2-Trans-Dichloroethylene	1,2-Trans-Dichloroethylene
1,3-Dichlorobenzene	1,3-Dichlorobenzene
1,3-Dichloropropene	1,3-Dichloropropene
1,3-Trans-Dichloropropylene	1,3-Trans-Dichloropropylene
1,4-Dichlorobenzene	1,4-Dichlorobenzene
2,2-Bis(4-hydroxy-phenyl) propane	2,2-Bis(4-hydroxy-phenyl) propane
2,4,6-Trichlorophenol	2,4,6-Trichlorophenol
2,4-Dichlorophenol	2,4-Dichlorophenol
2,4-Dimethylphenol	2,4-Dimethylphenol
2,4-Dinitrophenol	2,4-Dinitrophenol
2,4-Dinitrotoluene	2,4-Dinitrotoluene
2,6-Dinitrotoluene	2,6-Dinitrotoluene
2-Chloroethyl vinyl ether	2-Chloroethyl vinyl ether
2-Chloronaphthalene	2-Chloronaphthalene
2-Chlorophenol	2-Chlorophenol
2-Nitrophenol	2-Nitrophenol
3,3-Dichlorobenzidine	3,3-Dichlorobenzidine
4,6-Dinitro-o-cresol	4,6-Dinitro-o-cresol
4-Nitrophenol	4-Nitrophenol

PARAMETERS PRESENT IN PERMITS

Organics (Continued)	Organics (Continued)
3,4-Benzofluoranthene	3,4-Benzofluoranthene
4,4'-DDT	4,4'-DDT
4,4'-DDE	4,4'-DDE
4,4'-DDD	4,4'-DDD
4-Chlorophenyl phenyl ether	4-Chlorophenyl phenyl ether
4-Bromophenyl phenyl ether	4-Bromophenyl phenyl ether
Acenaphthene	Acenaphthene
Acenaphthylene	Acenaphthylene
Acrolein	Acrolein
Acrylonitrile	Acrylonitrile
Aldrin	Aldrin
Alpha-endosulfan	Alpha-endosulfan
Anthracene	Anthracene
Benzene	Benzene
Benzidine	Benzidine
Benzo (a) anthracene	Benzo (a) anthracene
Benzo (a) pyrene	Benzo (a) pyrene
Benzo (ghi) perylene	Benzo (ghi) perylene
Benzo (k) fluoranthane	Benzo (k) fluoranthane
Beta-endosulfan	Beta-endosulfan
BHC-Alpha	Alpha-BHC
BHC-Beta	Beta-BHC
BHC-Gamma	Gamma-BHC
BHC-Delta	Delta-BHC
Bis (2-chloroethyl) ether	Bis (2-chloroethyl) ether
Bis (2-chlorisopropyl) ether	Bis (2-chlorisopropyl) ether
Bis (2-chloroethoxy) methane	Bis (2-chloroethoxy) methane
Bis (2-ethylhexyl) phthalate	Bis (2-ethylhexyl) phthalate
Bromoform	Bromoform
Butyl benzyl phthalate	Butyl benzyl phthalate
Carbon tetrachloride	Carbon tetrachloride
Chlordane	Chlordane
Chlorobenzene	Chlorobenzene
Chloroethane	Chloroethane
Chloroform	Chloroform
Chlorodibromomethane	Chlorodibromomethane
Chrysene	Chrysene
DDD	DDD
DDE	DDE
Dibenzo (a,h) anthracene	Dibenzo (a,h) anthracene
Dichlorobromomethane	Dichlorobromomethane
Dichloropropene	Dichloropropene
Dieldrin	Dieldrin
Diethyl phthalate	Diethyl phthalate
Dimethyl phthalate	Dimethyl phthalate
Di-n-butyl phthalate	Di-n-butyl phthalate

PARAMETERS PRESENT IN PERMITS

Organics (Continued)

Dinitrotoluene
Di-n-octyl phthalate
Endosulfan
Endosulfan sulfate
Endrin
Endrin aldehyde
Ethylbenzene
Fluoranthene
Fluorene
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Methyl bromide
Methyl chloride
Methylene chloride
Naphthalene
Nitrobenzene
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
N-Nitrosodi-n-propylamine
Parachlorometacresol
PCB-1242
PCB-1254
PCB-1221
PCB-1232
PCB-1248
PCB-1260
PCB-1016
Pentachlorophenol
Phenol
Phenols
Phenanthrene
Pyrene
Tetrachloroethylene
Toluene
Toxaphene
Trichloroethylene
Vinyl chloride

Organics (Continued)

Dinitrotoluene
Di-n-octyl phthalate
Endosulfan
Endosulfan sulfate
Endrin
Endrin aldehyde
Ethylbenzene
Fluoranthene
Fluorene
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Methyl bromide
Methyl chloride
Methylene chloride
Naphthalene
Nitrobenzene
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
N-Nitrosodi-n-propylamine
Parachlorometacresol
PCB-1242
PCB-1254
PCB-1221
PCB-1232
PCB-1248
PCB-1260
PCB-1016
Pentachlorophenol
Phenol
Phenols
Phenanthrene
Pyrene
Tetrachloroethylene
Toluene
Toxaphene
Trichloroethylene
Vinyl chloride

PARAMETERS PRESENT IN PERMITS

Metals and Cyanide	Metals and Cyanide
Aluminum (dissolved)	Al (DS)
Aluminum (soluble)	Al (S)
Aluminum (total recoverable)	Al (TR)
Aluminum (total)	Al (T)
Antimony (soluble)	Sb (S)
Antimony (total recoverable)	Sb (TR)
Antimony (total)	Sb (T)
Antimony (dissolved)	Sb (DS)
Arsenic (soluble)	As (S)
Arsenic (total)	As (T)
Arsenic (total recoverable)	As (TR)
Arsenic (dissolved)	As (DS)
Barium (dissolved)	Ba (DS)
Barium (soluble)	Ba (S)
Barium (total recoverable)	Ba (TR)
Barium (total)	Ba (T)
Beryllium (dissolved)	Be (DS)
Beryllium (soluble)	Be (S)
Beryllium (total recoverable)	Be (TR)
Beryllium (total)	Be (T)
Cadmium (soluble)	Cd (S)
Cadmium (total recoverable)	Cd (TR)
Cadmium (dissolved)	Cd (DS)
Cadmium (total)	Cd (T)
Chromium (total hexavalent)	Cr^{+6}
Chromium (dissolved hexavalent)	Cr^{+6} (DS)
Chromium (soluble hexavalent)	Cr^{+6} (S)
Chromium (trivalent)	Cr^{+3}
Chromium (soluble trivalent)	$Cr^{+3\ (S)}$
Chromium (dissolved)	Cr (DS)
Chromium (soluble)	Cr (S)
Chromium (total recoverable)	Cr (TR)
Chromium (total)	Cr (T)
Cobalt (dissolved)	Co (DS)
Cobalt (soluble)	Co (S)
Cobalt (total)	Co (T)
Cobalt (total recoverable)	Co (TR)
Copper (soluble)	Cu (S)
Copper (total)	Cu (T)
Copper (total recoverable)	Cu (TR)
Copper (dissolved)	Cu (DS)

Metals and Cyanide (Continued)	Metals and Cyanide (Continued)
Cyanide (amenable)	CN (A)
Cyanide (free)	CN (F)
Cyanide (total)	CN (T)
Cyanide (weak acid dissociable)	CN (WAD)
Gold (total)	Au (T)
Gold (soluble)	Au (S)
Gold (total recoverable)	Au (TR)
Gold (dissolved)	Au (DS)
Iridium (total recoverable)	Ir (TR)
Iridium (soluble)	Ir (S)
Iridium (total)	Ir (T)
Iridium (dissolved)	Ir (DS)
Iron (dissolved)	Fe (DS)
Iron (soluble)	Fe (S)
Iron (total)	Fe (T)
Iron (total recoverable)	Fe (TR)
Lead (total recoverable)	Pb (TR)
Lead (soluble)	Pb (S)
Lead (total)	Pb (T)
Lead (dissolved)	Pb (DS)
Magnesium (dissolved)	Mg (DS)
Magnesium (soluble)	Mg (S)
Magnesium (total recoverable)	Mg (TR)
Magnesium (total)	Mg (T)
Manganese (dissolved)	Mn (DS)
Manganese (soluble)	Mn (S)
Manganese (total)	Mn (T)
Manganese (total recoverable)	Mn (TR)
Mercury (total)	Hg (T)
Mercury (soluble)	Hg (S)
Mercury (total recoverable)	Hg (TR)
Mercury (dissolved)	Hg (DS)
Molybdenum (dissolved)	Mo (DS)
Molybdenum (soluble)	Mo (S)
Molybdenum (total)	Mo (T)
Molybdenum (total recoverable)	Mo (TR)
Nickel (dissolved)	Ni (DS)
Nickel (soluble)	Ni (S)
Nickel (total)	Ni (T)
Nickel (total recoverable)	Ni (TR)
Osmium (total recoverable)	Os (TR)
Osmium (soluble)	Os (S)
Osmium (dissolved)	Os (DS)
Osmium (total)	Os (T)
Palladium (dissolved)	Pd (DS)
Palladium (soluble)	Pd (S)

Metals and Cyanide (Continued)	Metals and Cyanide (Continued)
Palladium (total recoverable)	Pd (TR)
Palladium (total)	Pd (T)
Platinum (total)	Pt (T)
Platinum (soluble)	Pt (S)
Platinum (dissolved)	Pt (DS)
Platinum (total recoverable)	Pt (TR)
Rhodium (total)	Rh (T)
Rhodium (soluble)	Rh (S)
Rhodium (dissolved)	Rh (DS)
Rhodium (total recoverable)	Rh (TR)
Ruthenium (total recoverable)	Ru (TR)
Ruthenium (soluble)	Ru (S)
Ruthenium (dissolved)	Ru (DS)
Ruthenium (total)	Ru (T)
Selenium (dissolved)	Se (DS)
Selenium (soluble)	Se (S)
Selenium (total recoverable)	Se (TR)
Selenium (total)	Se (T)
Silver (total)	Ag (T)
Silver (soluble)	Ag (S)
Silver (total recoverable)	Ag (TR)
Silver (dissolved)	Ag (DS)
Thallium (total)	Tl (T)
Thallium (soluble)	Tl (S)
Thallium (dissolved)	Tl (DS)
Thallium (total recoverable)	Tl (TR)
Tin (dissolved)	Sn (DS)
Tin (soluble)	Sn (S)
Tin (total)	Sn (T)
Tin (total recoverable)	Sn (TR)
Titanium (dissolved)	Ti (DS)
Titanium (soluble)	Ti (S)
Titanium (total recoverable)	Ti (TR)
Titanium (total)	Ti (T)
Tungsten (total)	W (T)
Tungsten (soluble)	W (S)
Tungsten (total recoverable)	W (DR)
Tungsten (dissolved)	W (DS)
Vanadium (total recoverable)	V (TR)
Vanadium (soluble)	V (S)
Vanadium (dissolved)	V (DS)
Vanadium (total)	V (T)
Zinc (dissolved)	Zn (DS)
Zinc (soluble)	Zn (S)
Zinc (total)	Zn (T)
Zinc (total recoverable)	Zn (TR)

PARAMETERS PRESENT IN PERMITS

Miscellaneous

2,3,7,8-TCDD (dioxin)
2,3,7,8-TCDF (difuran)
Aldicarb
Ametryoe
Asbestos (fibrous)
Atrazine
Carbofuran
Chlorophyll
Chlorosyringaldehyde
Chlorpyrifos
Color
Demeton
Ethylene glycol
Formaldehyde
Hydrazine
Isopropylbiphenyl
Lindane
Malathion
Methoxychlor
Methyl tert butyl ether
Mirex
Nitro-n-methyl phthalimide
Orthophosphate
Propylene glycol
Specific conductance
Tetrahydrofuran
Urea

Whole Effluent Toxicity (WET)
Acute whole effluent toxicity
Chronic whole effluent toxicity

Miscellaneous

2,3,7,8-TCDD
2,3,7,8-TCDF
Aldicarb
Ametryoe
Asbestos (fibrous)
Atrazine
Carbofuran
Chlorophyll
Chlorosyringaldehyde
Chlorpyrifos
Color
Demeton
Ethylene glycol
Formaldehyde
Hydrazine
Isopropylbiphenyl
Lindane
Malathion
Methoxychlor
Methyl tert butyl ether
Mirex
Nitro-n-methyl phthalimide
Orthosphosphate
Propylene glycol
Specific conductance
Tetrahydrofuran
Urea

Whole Effluent Toxicity (WET)
Acute WET
Chronic WET

PARAMETERS PRESENT IN PERMITS

Aggregate Parameters	Aggregate Parameters
Adsorbable organic halogens	AOX
Aromatic hydrocarbons (total)	Aromatic hydrocarbons (total)
Aromatic hydrocarbons	Aromatic hydrocarbons
Chlordane compounds	Chlordane compounds
Clarifying agents	Clarifying agents
DDT and derivatives	DDT and derivatives
Debris	Debris
Hydrocarbons (total)	Hydrocarbons (total)
Jet fuel	Jet fuel
Metals (total)	Metals (T)
Metals (rare earth)	Metals (rare earth)
PCBs (total)	PCBs (T)
Petroleum hydrocarbons (total)	TPH
Petroleum aromatic hydrocarbons	PAHs
Polyaromatic hydrocarbons	PAHs
Polynuclear aromatics	PNAs (same as PAHs)
Priority pollutants	Priority pollutants
Purgeables (total)	Purgeables (T)
Residual oxidents (total)	TROs
Surfactants	Surfactants
Thiocarbamates	Thiocarbamates
Toxic pollutants	Toxic pollutants
Toxic organics (total)	TTOs
Trihalomethanes	Trihalomethanes
Volatile organic compounds (total)	VOCs (T)
Xylenes	Xylenes
Radioactivity	**Radioactivity**
Alpha (Total)	Alpha (T)
Alpha (Suspended)	Alpha (SS)
Alpha (Dissolved)	Alpha (DS)
Beta (Total)	Beta (T)
Beta (Suspended)	Beta (SS)
Beta (Dissolved)	Beta (DS)
Gamma (Total)	Gamma (T)
Gamma (Suspended)	Gamma (SS)
Gamma (Dissolved)	Gamma (DS)
Radium (Total)	Radium (T)
Radium 226	Radium (226)

APPENDIX C

LIST OF PERMITS

LIST OF PERMIT NUMBERS

AK 0000841
AK 0029840
AK 0043192
AK 0049786
AL 0002666
AL 0002968
AL 0003026
AL 0023272
AR 0000388
AR 0003018
AR 0035823
AR 0036544
CA 0004839
CA 0028797
CA 0048755
CA 0105139
CO 0000230
CO 0001121
CO 0026620
CO 0042064
CT 0000850
CT 0001180
CT 0001601
CT 0003263
GA 0001791
GA 0003620
GA 0003760
GA 0027707
HI 0000191
HI 0000281
HI 0020796
HI 0021148
IA 0000132
IA 0003395
IA 3126107
IA 7000102
ID 0000825
ID 0001163
ID 0001180
ID 0027154
IL 0000141
IL 0001643
IL 0003140
IL 0004073
IN 0002101
IN 0036447
IN 0038172
IN 0053384
KS 0000434
KS 0000817
KS 0001601
KS 0001635
KY 0004049
LA 0000418
LA 0004847
LA 0007501
LA 0007579
MA 0003557
MA 0004171
MA 0005011
MA 0005291
ME 0002054
ME 0002321
ME 0022314
ME 0022861
MN 0001422
MN 0001643
MN 0002011
MN 0002186
MN 0038962
MS 0000931
MS 0001783
MS 0035882
MS 0047759
NC 0004952
NC 0005274
NC 0005479
ND 0023809
ND 0024368
ND 0025038
ND 0025232
NH 0001261
NH 0001465
NH 0020788
NH 0021652
NJ 0003310
NJ 0031895
NJ 0070696
OH 0000621
OH 0002615
OH 0005282
OH 0009997
OK 0041629
OR 0000060
OR 0000141
OR 0000515
OR 0001635
RI 0000043
RI 0021920
RI 0021946
RI 0022021
SC 0000515
SC 0001368
SC 0003441
SC 0003557
SD 0000043
SD 0000281
SD 0025437
TN 0000353
TN 0004677
TN 0031631
TN 0067199
TX 0000167
TX 0000949
UT 0000167
VT 0000272
VT 0020401
VT 0020702
VT 0020966
WA 0002925
WA 0037265
WI 0000531
WI 0000914
WI 0001341
WI 0051764
WV 0004626
WV 0004707
WV 0005495
WV 0042641
WY 0000442
WY 0001171
WY 0003115
WY 0032590

APPENDIX D

LIMITATIONS/MONITORING BASIS INDEX

PERMITS CONTAINING
EFFLUENT LIMITATION GUIDELINES AS LIMITATIONS/MONITORING BASIS

AK 0000841
AK 0049786
AL 0002968
AL 0003026
AL 0023272
AR 0000388
CA 0004839
CO 0000230
CO 0001121
CT 0001180
CT 0001601
GA 0003760
GA 0027707
HI 0000191
HI 0000281
HI 0020796
ID 0001163
ID 0001180
IL 0000141
IL 0001643
IL 0004073
IN 0002101
IN 0036447
KS 0000434
KS 0000817
KS 0001601
KS 0001635
LA 0000418
LA 0007501
LA 0007579
MA 0003557
MA 0004171
MA 0005011
MA 0005291
MN 0001422
MS 0000931
MS 0001783
MS 0035882
MS 0047759
NC 0004952
NC 0005274
NC 0005479
ND 0023809
ND 0024368
ND 0025232
NH 0001261
NH 0001465
OH 0005282
OK 0041629
OR 0000060
OR 0000141
OR 0000515
RI 0000043
SC 0000515
SC 0001368
SC 0003441
SC 0003557
TN 0000353
TX 0000167
VT 0000272
VT 0020401
WA 0002925
WA 0037265
WV 0004626
WV 0042641
WY 0000442
WY 0003115

PERMITS CONTAINING
WATER QUALITY STANDARDS AS LIMITATIONS/MONITORING BASIS

AK 0000841
AK 0029840
AK 0043192
AK 0049786
AL 0002666
AL 0002968
AL 0003026
AL 0023272
AR 0000388
AR 0003018
AR 0035823
AR 0036544
CA 0004839
CA 0028797
CA 0048755
CA 0105139
CO 0000230
CO 0001121
CO 0026620
CO 0042064
CT 0001180
CT 0001601
GA 0001791
GA 0003620
GA 0003760
HI 0000191
HI 0000281
HI 0020796
HI 0021148
ID 0001163
ID 0001180
ID 0027154
IL 0000141
IL 0001643
IL 0003140
IL 0004073
IN 0002101
IN 0036447
IN 0038172
IN 0053384
KS 0000434
KS 0000817
KS 0001601
KS 0001635
KY 0004049
LA 0004847
LA 0007501
LA 0007579
MA 0003557
MA 0004171
MA 0005011
MA 0005291
ME 0022314
MN 0001422
MS 0000931
MS 0001783
MS 0035882
MS 0047759
NC 0004952
NC 0005274
NC 0005479
ND 0023809
ND 0024368
ND 0025038
ND 0025232
NH 0001261
NH 0001465
NH 0020788
NH 0021652
OH 0000621
OH 0002615
OH 0005282
OH 0009997
OK 0041629
OR 0000141
OR 0000515
OR 0001635
RI 0000043
RI 0021946
RI 0022021
SC 0000515
SC 0001368
SC 0003441
SC 0003557
SD 0000043
SD 0000281
SD 0025437
TN 0000353
TN 0004677
TN 0031631
TN 0067199
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VT 0020401
VT 0020702
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WI 0000531
WI 0000914
WI 0001341
WI 0051764
WV 0004626
WV 0004707
WV 0005495
WV 0042641
WY 0001171
WY 0003115
WY 0032590

PERMITS CONTAINING
BEST PROFESSIONAL JUDGEMENT AS LIMITATIONS/MONITORING BASIS

AK 0000841
AK 0029840
AK 0043192
AK 0049786
AL 0002968
AL 0003026
AL 0023272
CA 0028797
CA 0105139
CO 0000230
CO 0001121
CO 0026620
CO 0042064
CT 0001601
GA 0001791
GA 0027707
HI 0020796
ID 0000825
ID 0001163
ID 0027154
IL 0004073
IN 0002101
IN 0036447
KS 0000434
KS 0000817
KS 0001635
KY 0004049
LA 0004847
LA 0007501
MA 0003557
MA 0004171
MA 0005011
ME 0022314
MS 0047759
NC 0004952
ND 0023809
ND 0024368
ND 0025232
NH 0001465
NH 0020788
NH 0021652
OH 0000621
OH 0009997
OK 0041629
OR 0000060
OR 0000141
OR 0000515
OR 0001635
RI 0021946
SC 0003441
SD 0000043
SD 0000281
SD 0025437
TN 0031631
TN 0067199
UT 0000167
VT 0020702
WA 0037265
WI 0000531
WI 0000914
WV 0004626
WV 0004707
WV 0005495
WV 0042641
WY 0001171
WY 0032590

PERMITS CONTAINING
MONITORING ONLY AS LIMITATIONS/MONITORING BASIS

AK 0000841
AK 0029840
AK 0043192
AK 0049786
AL 0002666
AL 0002968
AL 0003026
AL 0023272
AR 0000388
AR 0003018
AR 0035823
CA 0004839
CA 0028797
CA 0105139
CO 0000230
CO 0001121
CO 0026620
CO 0042064
CT 0000850
CT 0001180
CT 0001601
GA 0001791
GA 0003620
GA 0003760
GA 0027707
HI 0000191
HI 0000281
HI 0021148
IA 0003395
IA 3126107
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ID 0027154
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IN 0038172
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LA 0007501
LA 0007579
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MA 0005291
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MN 0002011
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MS 0047759
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NC 0005274
NC 0005479
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ND 0025232
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NH 0001465
NH 0020788
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OH 0009997
OR 0000060
OR 0000141
OR 0000515
RI 0000043
RI 0021920
SC 0000515
SC 0001368
SC 0003441
SC 0003557
SD 0000043
SD 0000281
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TN 0004677
TN 0031631
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VT 0020702
WI 0000531
WI 0000914
WI 0001341
WI 0051764
WV 0004626
WV 0004707
WV 0005495
WV 0042641
WY 0000442
WY 0003115

PERMITS CONTAINING
WET LIMITS AS LIMITATIONS/MONITORING BASIS

AL 0002666
AL 0002968
AL 0003026
AL 0023272
CA 0004839
CA 0028797
CO 0000230
CO 0026620
CO 0042064
CT 0000850
CT 0001180
CT 0001601
HI 0000191
HI 0000281
ID 0001163
IL 0001643
IL 0004073
KY 0004049
MA 0005291
MS 0000931
NC 0004952
NC 0005274
NH 0001261
OH 0009997
SD 0000043
SD 0000281
TN 0000353
TN 0067199
WA 0002925
WV 0004626
WV 0005495
WY 0000442
WY 0001171
WY 0003115
WY 0032590

PERMITS CONTAINING
WET TESTING ONLY AS LIMITATIONS/MONITORING BASIS

AK 0000841
AK 0029840
AR 0000388
AR 0003018
AR 0035823
AR 0036544
CA 0105139
CO 0000230
CO 0001121
IA 0000132
IA 3126107
IA 7000102
ID 0027154
IL 0000141
IL 0001643
IL 0003140
IL 0004073
IN 0002101
IN 0036447
IN 0038172
KS 0000817
KS 0001601
KY 0004049
LA 0000418
LA 0004847
LA 0007579
MA 0004171
MA 0005011
ME 0022314
NC 0005479
ND 0024368
ND 0025232
OH 0000621
OH 0002615
OH 0009997
OK 0041629
OR 0000060
OR 0000141
OR 0000515
OR 0001635
RI 0000043
SC 0000515
SC 0001368
SC 0003441
SC 0003557
SD 0000281
WA 0002925
WA 0037265
WI 0000531
WI 0000914
WI 0001341
WI 0051764

PERMITS CONTAINING MULTIPLE CATEGORIES AS LIMITATIONS/MONITORING BASIS

AL 0003026
AL 0023272
ID 0001163
KS 0001635
OH 0009997

PERMITS CONTAINING TIERED LIMITS AS LIMITATIONS/MONITORING BASIS

AK 0049786
CA 0004839
HI 0020796
IL 0004073
IN 0036447
KS 0000817
LA 0000418
LA 0004847
LA 0007501
MS 0000931
MS 0001783
MS 0035882
MS 0047759
NC 0004952
NC 0005274
NH 0001261
NH 0001465
OH 0000621
RI 0000043
SC 0000515
SC 0001368
SC 0003441
TN 0067199
TX 0000167

PERMITS CONTAINING OTHER LIMITATIONS/MONITORING BASIS

AL 0002666
AL 0023272
AR 0000388
AR 0003018
AR 0035823
AR 0036544
CO 0000230
CO 0001121
CO 0026620
CO 0042064
GA 0003620
GA 0003760
GA 0027707
HI 0020796
ID 0001163
IL 0003140
IN 0002101
IN 0036447
IN 0038172
IN 0053384
KS 0000434
KS 0000817
KS 0001601
LA 0004847
LA 0007501
LA 0007579
MA 0003557
MA 0004171
MA 0005011
MA 0005291
MS 0000931
MS 0035882
NC 0005274
ND 0024368
ND 0025038
ND 0025232
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NH 0020788
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OH 0005282
OR 0000060
OR 0001635
RI 0000043
RI 0021920
RI 0021946
RI 0022021
SC 0000515
SC 0001368
SC 0003441
SC 0003557
SD 0000043
SD 0000281
SD 0025437
TN 0000353
TN 0004677
TN 0031631
TN 0067199
TX 0000167
VT 0000272
VT 0020401
VT 0020702
VT 0020966
WI 0000531
WI 0000914
WI 0001341
WI 0051764
WV 0004626
WV 0004707
WV 0005495
WV 0042641
WY 0003115

APPENDIX E

SPECIAL CONDITIONS INDEX

PERMITS CONTAINING
SPECIAL CONDITIONS - BEST MANAGEMENT PRACTICES (BMPs)

AK 0029840	ID 0001163	OH 0009997	WI 0051764
AK 0043192	IN 0002101	OR 0000060	WV 0004626
AK 0049786	IN 0053384	OR 0000141	WV 0005169
AL 0002666	KY 0004049	OR 0000515	WY 0003115
AL 0002968	LA 0004847	OR 0001635	
AL 0003026	MA 0003557	SC 0000515	
AL 0023272	MA 0004171	SC 0001368	
CO 0001121	MA 0005011	SC 0003441	
CO 0042064	ME 0022314	SC 0003557	
CT 0001180	ND 0025038	TN 0031631	
GA 0001791	NH 0001465	TN 0067199	
GA 0003620	NH 0020788	VT 0000272	
GA 0003760	NH 0021652	VT 0020702	
GA 0027707	NJ 0031895	WA 0002925	
ID 0000825	OH 0002615	WI 0000914	

PERMITS CONTAINING
SPECIAL CONDITIONS - STORM WATER POLLUTION PREVENTION PLAN

AL 0002666	ME 0022314	WI 0000914
AL 0003026	NH 0020788	WV 0004626
AL 0023272	NH 0021652	WV 0005169
CO 0001121	OH 0002615	WY 0000442
GA 0003620	OH 0009997	WY 0003115
GA 0003760	TN 0031631	
HI 0020796	TX 0000167	
LA 0004847	WA 0002925	

PERMITS CONTAINING
SPECIAL CONDITIONS - SEDIMENT TESTING

AK 0029840
AK 0043192
AK 0049786
CA 0048755
HI 0000191
ID 0001163
SC 0001368
WA 0002925
WA 0037265
WI 0051764

PERMITS CONTAINING
SPECIAL CONDITIONS - WATER QUALITY SURVEY

AK 0029840
AK 0043192
AK 0049786
AL 0023272
CO 0026620
GA 0003620
HI 0000191
HI 0000281
HI 0020796
HI 0021148
ID 0000825
ID 0001163
ID 0027154
IL 0003140
IL 0004073
ND 0025232
NH 0001465
OH 0005282
OH 0009997
OR 0001635
SD 0000043
TX 0000167
VT 0020401
WA 0037265
WV 0004707
WV 0005495

PERMITS CONTAINING
SPECIAL CONDITIONS - TOXICITY REDUCTION EVALUATION (TRE)

AK 0029840	HI 0000191	WA 0037265
AK 0043192	ID 0001163	WV 0004707
AK 0049786	IL 0001643	
AL 0002666	IL 0003140	
AL 0003026	NH 0001465	
AL 0023272	OH 0009997	
CA 0004839	OR 0000515	
GA 0003620	TX 0000167	

PERMITS CONTAINING
SPECIAL CONDITIONS - BIOMONITORING

AK 0000841	CT 0001601	KY 0004049	OR 0000515
AR 0000388	HI 0000191	LA 0000418	OR 0001635
AR 0003018	HI 0000281	LA 0004847	RI 0000043
AR 0035823	IA 7000102	LA 0007501	SD 0000043
AR 0036544	ID 0001163	LA 0007579	SD 0000281
CO 0000230	IL 0000141	MS 0000931	WA 0037265
CO 0001121	IL 0001643	ND 0024368	WV 0005495
CO 0026620	IL 0004073	ND 0025232	
CO 0042064	IN 0002101	OK 0041629	
CT 0000850	IN 0036447	OR 0000060	
CT 0001180	IN 0038172	OR 0000141	

PERMITS CONTAINING
SPECIAL CONDITIONS - METHOD DETECTION LEVELS (MDLs)

AK 0043192	IN 0053384	OH 0009997
AR 0035823	KS 0000817	RI 0000043
CO 0000230	KY 0004049	SC 0000515
CO 0001121	LA 0004847	SD 0000043
CO 0026620	LA 0007501	SD 0025437
CO 0042064	LA 0007579	TN 0067199
GA 0001791	ME 0022314	TX 0000167
ID 0001163	MN 0001422	WI 0000531
IL 0004073	NH 0001465	WI 0000914

PERMITS CONTAINING
SPECIAL CONDITIONS - MONITORING

AK 0000841	ID 0001163	ND 0024368	SC 0001368
AK 0029840	ID 0027154	ND 0025232	SD 0000043
AK 0043192	IL 0004073	NH 0001465	SD 0000281
AK 0049786	IN 0002101	NH 0021652	TN 0031631
AR 0003018	IN 0053384	NJ 0003310	VT 0000272
CA 0004839	KS 0000817	NJ 0070696	VT 0020401
CA 0048755	KS 0001635	OH 0005282	VT 0020702
CA 0105139	KY 0004049	OH 0009997	WA 0002925
CO 0000230	LA 0007579	OR 0000060	WA 0037265
CO 0001121	MA 0003557	OR 0000141	WI 0000914
CO 0026620	MA 0005291	OR 0000515	WI 0051764
GA 0001791	ME 0022314	OR 0001635	WV 0004707
GA 0003620	NC 0004952	RI 0000043	WV 0005495
HI 0000191	NC 0005274	RI 0021920	WY 0003115
HI 0000281	NC 0005479	SC 0000515	WY 0032590

PERMITS CONTAINING
OTHER SPECIAL CONDITIONS

AL 0002666
AL 0003026
AL 0023272
AR 0000388
AR 0003018
CA 0004839
CO 0000230
CO 0001121
CO 0026620
CO 0042064
CT 0001180
GA 0001791
GA 0003620
GA 0003760
GA 0027707
HI 0000191
HI 0021148
IA 0000132
IA 0003395
ID 0000825
ID 0001180
ID 0027154
IL 0001643
IL 0003140
IL 0004073
IN 0002101
IN 0036447
IN 0038172
IN 0053384
KS 0000434
KS 0000817
KS 0001601
KY 0004049
LA 0000418
LA 0004847
LA 0007501
LA 0007579
MA 0003557
MA 0004171
MN 0001422
MN 0002011
MS 0000931
MS 0001783
MS 0035882
MS 0047759
NC 0005274
ND 0024368
NH 0001465
NJ 0003310
NJ 0031895
NJ 0070696
OH 0000621
OH 0002615
OH 0005282
OR 0000060
OR 0000515
OR 0001635
RI 0000043
RI 0021920
RI 0021946
RI 0022021
SC 0000515
SC 0001368
SD 0000043
SD 0000281
SD 0025437
TN 0000353
TN 0004677
TN 0031631
TN 0067199
TX 0000167
VT 0020401
VT 0020702
VT 0020966
WA 0002925
WI 0000531
WI 0000914
WI 0001341
WI 0051764
WV 0004626
WV 0004707
WV 0005169
WV 0005495
WV 0042641
WY 0000442
WY 0003115

APPENDIX F

EFFLUENT GUIDELINES INDEX

INDEX TO PERMITS CONTAINING EFFLUENT LIMITATION GUIDELINES

40 CFR PART 405 - DAIRY PRODUCTS

OR 0000141

40 CFR PART 407 - CANNED AND PRESERVED FRUITS AND VEGETABLES

ID 0001180

40 CFR PART 408 - CANNED AND PRESERVED SEAFOOD PROCESSING

AK 0049786

40 CFR PART 409 - SUGAR PROCESSING

HI 0000191
HI 0000281
ND 0024368

40 CFR PART 410 - TEXTILE MILLS

AL 0002968
GA 0003760
MA 0004171
MS 0035882
MS 0047759
NC 0005479
RI 0000043
SC 0001368

40 CFR PART 414 - ORGANIC CHEMICALS, PLASTICS, AND SYNTHETIC FIBERS

AL 0003026
AL 0023272
IL 0000141
IL 0001643
IN 0002101
KS 0001635
LA 0007501
MA 0005291
MS 0004952
NC 0004952
NC 0005274
SC 0003441
SC 0003557

40 CFR PART 415 - INORGANIC CHEMICALS MANUFACTURING

WA 0037265

40 CFR PART 416 - ORGANIC CHEMICALS, PLASTICS, AND SYNTHETIC FIBERS

SC 0003441
SC 0003557

40 CFR PART 418 - FERTILIZER MANUFACTURING

LA 0000418

40 CFR PART 419 - PETROLEUM REFINING

AK 0000841
IL 0004073
KS 0000434
WV 0004626
WY 0000442

40 CFR PART 421 - NONFERROUS METALS MANUFACTURING

OR 0000060

40 CFR PART 423 - STEAM ELECTRIC

AR 0000388
CO 0001121
NH 0021652
KS 0001601
LA 0007579
MA 0003557
ND 0025232
NH 0001465
NH 0021652
OH 0005282
SC 0000515
VT 0020401

40 CFR PART 426 - GLASS MANUFACTURING

CA 0004839

40 CFR PART 430 - PULP AND PAPER

ID 0001163
IN 0036447
MA 0005011
ME 0002054
ME 0002321
MN 0001422
MN 0001643
NH 0001261
OK 0041629
OR 0000515
TX 0000167
WA 0002925
WI 0001341
WY 0003115

40 CFR PART 432 - MEAT PRODUCTS

KS 0000817
MS 0001783

40 CFR PART 433 - METAL FINISHING

CT 0001180
GA 0027707
ME 0022861
MS 0000931
TN 0000353
VT 0000272

40 CFR PART 436 - MINERAL MINING AND PROCESSING

HI 0020796
ND 0023809

40 CFR PART 440 - ORE MINING AND DRESSING

CO 0000230

40 CFR PART 468 - COPPER FORMING

CT 0001601

APPENDIX G

POLLUTANT INDEX

LIST OF PARAMETERS

Parameter Name	Permit Number
1,1,1-Trichloroethane	AL 0003026
1,1,1-Trichloroethane	AL 0023272
1,1,1-Trichloroethane	CA 0028797
1,1,1-Trichloroethane	CO 0042064
1,1,1-Trichloroethane	GA 0027707
1,1,1-Trichloroethane	IA 7000102
1,1,1-Trichloroethane	IL 0000141
1,1,1-Trichloroethane	IL 0001643
1,1,1-Trichloroethane	IN 0002101
1,1,1-Trichloroethane	LA 0007501
1,1,1-Trichloroethane	MA 0005291
1,1,1-Trichloroethane	NC 0004952
1,1,1-Trichloroethane	NC 0005274
1,1,1-Trichloroethane	SC 0003441
1,1,1-Trichloroethane	SC 0003557
1,1,1-Trichloroethane	TX 0000949
1,1,2,2-Tetrachloroethane	CO 0042064
1,1,2,2-Tetrachloroethane	IA 7000102
1,1,2-Trichloroethane	AL 0003026
1,1,2-Trichloroethane	AL 0023272
1,1,2-Trichloroethane	CO 0042064
1,1,2-Trichloroethane	GA 0027707
1,1,2-Trichloroethane	IA 7000102
1,1,2-Trichloroethane	IL 0000141
1,1,2-Trichloroethane	IL 0001643
1,1,2-Trichloroethane	IN 0002101
1,1,2-Trichloroethane	LA 0007501
1,1,2-Trichloroethane	MA 0005291
1,1,2-Trichloroethane	NC 0004952
1,1,2-Trichloroethane	NC 0005274
1,1,2-Trichloroethane	SC 0003441
1,1,2-Trichloroethane	SC 0003557
1,1,2-Trichloroethane	TX 0000949
1,1-Dichloroethane	AL 0003026
1,1-Dichloroethane	AL 0023272
1,1-Dichloroethane	IA 7000102
1,1-Dichloroethane	IL 0000141
1,1-Dichloroethane	IL 0001643
1,1-Dichloroethane	IN 0002101
1,1-Dichloroethane	LA 0007501
1,1-Dichloroethane	MA 0005291
1,1-Dichloroethane	NC 0004952
1,1-Dichloroethane	NC 0005274
1,1-Dichloroethane	SC 0003441
1,1-Dichloroethane	SC 0003557
1,1-Dichloroethane	TX 0000949
1,1-Dichloroethylene	AL 0003026
1,1-Dichloroethylene	AL 0023272
1,1-Dichloroethylene	CO 0042064
1,1-Dichloroethylene	IA 7000102
1,1-Dichloroethylene	IL 0000141
1,1-Dichloroethylene	IL 0001643
1,1-Dichloroethylene	IN 0002101
1,1-Dichloroethylene	LA 0007501
1,1-Dichloroethylene	MA 0005291
1,1-Dichloroethylene	NC 0004952
1,1-Dichloroethylene	NC 0005274
1,1-Dichloroethylene	SC 0003441
1,1-Dichloroethylene	SC 0003557
1,1-Dichloroethylene	TX 0000949
1,2,4,5-Tetrachlorobenzene	CO 0042064
1,2,4,5-Tetrachlorobenzene	WI 0000531
1,2,4,5-Tetrachlorobenzene	WI 0000914
1,2,4,5-Tetrachlorobenzene	WI 0001341
1,2,4-Trichlorobenzene	AL 0003026
1,2,4-Trichlorobenzene	AL 0023272
1,2,4-Trichlorobenzene	IA 7000102
1,2,4-Trichlorobenzene	IL 0000141
1,2,4-Trichlorobenzene	IL 0001643
1,2,4-Trichlorobenzene	IN 0002101
1,2,4-Trichlorobenzene	LA 0007501
1,2,4-Trichlorobenzene	MA 0005291
1,2,4-Trichlorobenzene	NC 0004952
1,2,4-Trichlorobenzene	NC 0005274
1,2,4-Trichlorobenzene	SC 0003441
1,2,4-Trichlorobenzene	SC 0003557
1,2,4-Trichlorobenzene	TX 0000949
1,2-Cis-Dichloroethylene	CA 0028797
1,2-Cis-Dichloroethylene	CO 0042064
1,2-Dichlorobenzene	AL 0003026
1,2-Dichlorobenzene	AL 0023272
1,2-Dichlorobenzene	CO 0042064
1,2-Dichlorobenzene	IA 7000102
1,2-Dichlorobenzene	IL 0000141
1,2-Dichlorobenzene	IL 0001643
1,2-Dichlorobenzene	IN 0002101
1,2-Dichlorobenzene	LA 0007501
1,2-Dichlorobenzene	MA 0005291
1,2-Dichlorobenzene	NC 0004952
1,2-Dichlorobenzene	NC 0005274
1,2-Dichlorobenzene	SC 0003441
1,2-Dichlorobenzene	SC 0003557
1,2-Dichlorobenzene	TX 0000949
1,2-Dichloroethane	AL 0003026
1,2-Dichloroethane	AL 0023272
1,2-Dichloroethane	CO 0042064
1,2-Dichloroethane	IA 7000102
1,2-Dichloroethane	IL 0000141
1,2-Dichloroethane	IL 0001643
1,2-Dichloroethane	IN 0002101
1,2-Dichloroethane	LA 0007501
1,2-Dichloroethane	MA 0005291
1,2-Dichloroethane	NC 0004952
1,2-Dichloroethane	NC 0005274
1,2-Dichloroethane	SC 0003441
1,2-Dichloroethane	SC 0003557
1,2-Dichloroethane	TX 0000949
1,2-Dichloropropane	AL 0003026
1,2-Dichloropropane	AL 0023272
1,2-Dichloropropane	CO 0042064
1,2-Dichloropropane	IA 7000102
1,2-Dichloropropane	IL 0000141
1,2-Dichloropropane	IL 0001643
1,2-Dichloropropane	IN 0002101
1,2-Dichloropropane	LA 0007501
1,2-Dichloropropane	MA 0005291
1,2-Dichloropropane	NC 0004952
1,2-Dichloropropane	NC 0005274
1,2-Dichloropropane	SC 0003441
1,2-Dichloropropane	SC 0003557
1,2-Dichloropropane	TX 0000949
1,2-Diphenylhydrazine	CO 0042064

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
1,2-Trans-Dichloroethylene	AL 0003026
1,2-Trans-Dichloroethylene	AL 0023272
1,2-Trans-Dichloroethylene	CA 0028797
1,2-Trans-Dichloroethylene	CO 0042064
1,2-Trans-Dichloroethylene	IA 7000102
1,2-Trans-Dichloroethylene	IL 0000141
1,2-Trans-Dichloroethylene	IL 0001643
1,2-Trans-Dichloroethylene	IN 0002101
1,2-Trans-Dichloroethylene	LA 0007501
1,2-Trans-Dichloroethylene	MA 0005291
1,2-Trans-Dichloroethylene	NC 0004952
1,2-Trans-Dichloroethylene	NC 0005274
1,2-Trans-Dichloroethylene	SC 0003441
1,2-Trans-Dichloroethylene	SC 0003557
1,2-Trans-Dichloroethylene	TX 0000949
1,3-Cis-Dichloropropylene	AL 0003026
1,3-Cis-Dichloropropylene	IN 0002101
1,3-Cis-Dichloropropylene	LA 0007501
1,3-Cis-Dichloropropylene	SC 0003441
1,3-Dichlorobenzene	AL 0003026
1,3-Dichlorobenzene	AL 0023272
1,3-Dichlorobenzene	CO 0042064
1,3-Dichlorobenzene	IA 7000102
1,3-Dichlorobenzene	IL 0000141
1,3-Dichlorobenzene	IL 0001643
1,3-Dichlorobenzene	IN 0002101
1,3-Dichlorobenzene	LA 0007501
1,3-Dichlorobenzene	MA 0005291
1,3-Dichlorobenzene	NC 0004952
1,3-Dichlorobenzene	NC 0005274
1,3-Dichlorobenzene	SC 0003441
1,3-Dichlorobenzene	SC 0003557
1,3-Dichlorobenzene	TX 0000949
1,3-Dichloropropene	IA 7000102
1,3-Dichloropropene	MA 0005291
1,3-Dichloropropene	NC 0004952
1,3-Dichloropropene	NC 0005274
1,3-Trans-Dichloropropylene	IL 0001643
1,4-Dichlorobenzene	AL 0003026
1,4-Dichlorobenzene	AL 0023272
1,4-Dichlorobenzene	CO 0042064
1,4-Dichlorobenzene	IA 7000102
1,4-Dichlorobenzene	IL 0000141
1,4-Dichlorobenzene	IL 0001643
1,4-Dichlorobenzene	IN 0002101
1,4-Dichlorobenzene	LA 0007501
1,4-Dichlorobenzene	MA 0005291
1,4-Dichlorobenzene	NC 0004952
1,4-Dichlorobenzene	NC 0005274
1,4-Dichlorobenzene	SC 0003441
1,4-Dichlorobenzene	SC 0003557
1,4-Dichlorobenzene	TX 0000949
2,2-Bis (4-hydroxy-phenyl) pro	IN 0002101
2,3,7,8-TCDD	AR 0035823
2,3,7,8-TCDD	CO 0042064
2,3,7,8-TCDD	GA 0003620
2,3,7,8-TCDD	ID 0001163
2,3,7,8-TCDD	ME 0002054
2,3,7,8-TCDD	ME 0002321
2,3,7,8-TCDD	MN 0001643

Parameter Name	Permit Number
2,3,7,8-TCDD	TX 0000167
2,3,7,8-TCDD	WI 0000531
2,3,7,8-TCDD	WI 0000914
2,3,7,8-TCDD	WI 0001341
2,3,7,8-TCDF	ID 0001163
2,3,7,8-TCDF	ME 0002054
2,3,7,8-TCDF	ME 0002321
2,3,7,8-TCDF	MN 0001643
2,4,5-TP	BM 4444444
2,4,5-TP	CO 0042064
2,4,5-Trichlorophenol	CO 0042064
2,4,6-Trichlorophenol	CO 0042064
2,4,6-Trichlorophenol	MN 0001643
2,4,6-Trichlorophenol	WI 0000531
2,4,6-Trichlorophenol	WI 0000914
2,4,6-Trichlorophenol	WI 0001341
2,4-D	CO 0042064
2,4-Dichlorophenol	AL 0003026
2,4-Dichlorophenol	AL 0023272
2,4-Dichlorophenol	CO 0042064
2,4-Dichlorophenol	IA 7000102
2,4-Dichlorophenol	IL 0000141
2,4-Dichlorophenol	IL 0001643
2,4-Dichlorophenol	IN 0002101
2,4-Dichlorophenol	LA 0007501
2,4-Dichlorophenol	MA 0005291
2,4-Dichlorophenol	MN 0001643
2,4-Dichlorophenol	NC 0004952
2,4-Dichlorophenol	NC 0005274
2,4-Dichlorophenol	SC 0003441
2,4-Dichlorophenol	SC 0003557
2,4-Dichlorophenol	TX 0000949
2,4-Dimethylphenol	AL 0003026
2,4-Dimethylphenol	AL 0023272
2,4-Dimethylphenol	CO 0042064
2,4-Dimethylphenol	IA 7000102
2,4-Dimethylphenol	IL 0000141
2,4-Dimethylphenol	IL 0001643
2,4-Dimethylphenol	IN 0002101
2,4-Dimethylphenol	LA 0007501
2,4-Dimethylphenol	MA 0005291
2,4-Dimethylphenol	NC 0004952
2,4-Dimethylphenol	NC 0005274
2,4-Dimethylphenol	SC 0003441
2,4-Dimethylphenol	SC 0003557
2,4-Dimethylphenol	TX 0000949
2,4-Dinitrophenol	AL 0003026
2,4-Dinitrophenol	AL 0023272
2,4-Dinitrophenol	IA 7000102
2,4-Dinitrophenol	IL 0000141
2,4-Dinitrophenol	IL 0001643
2,4-Dinitrophenol	IN 0002101
2,4-Dinitrophenol	LA 0007501
2,4-Dinitrophenol	MA 0005291
2,4-Dinitrophenol	NC 0004952
2,4-Dinitrophenol	NC 0005274
2,4-Dinitrophenol	SC 0003441
2,4-Dinitrophenol	SC 0003557
2,4-Dinitrophenol	TX 0000949
2,4-Dinitrotoluene	AL 0003026

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
2,4-Dinitrotoluene	AL 0023272
2,4-Dinitrotoluene	IA 7000102
2,4-Dinitrotoluene	IL 0000141
2,4-Dinitrotoluene	IL 0001643
2,4-Dinitrotoluene	IN 0002101
2,4-Dinitrotoluene	LA 0007501
2,4-Dinitrotoluene	MA 0005291
2,4-Dinitrotoluene	NC 0004952
2,4-Dinitrotoluene	NC 0005274
2,4-Dinitrotoluene	SC 0003441
2,4-Dinitrotoluene	SC 0003557
2,4-Dinitrotoluene	TX 0000949
2,6-Dinitrotoluene	AL 0003026
2,6-Dinitrotoluene	AL 0023272
2,6-Dinitrotoluene	IA 7000102
2,6-Dinitrotoluene	IL 0000141
2,6-Dinitrotoluene	IL 0001643
2,6-Dinitrotoluene	IN 0002101
2,6-Dinitrotoluene	LA 0007501
2,6-Dinitrotoluene	MA 0005291
2,6-Dinitrotoluene	NC 0004952
2,6-Dinitrotoluene	NC 0005274
2,6-Dinitrotoluene	SC 0003441
2,6-Dinitrotoluene	SC 0003557
2,6-Dinitrotoluene	TX 0000949
2-Chlorophenol	AL 0003026
2-Chlorophenol	AL 0023272
2-Chlorophenol	CO 0042064
2-Chlorophenol	IA 7000102
2-Chlorophenol	IL 0000141
2-Chlorophenol	IL 0001643
2-Chlorophenol	IN 0002101
2-Chlorophenol	LA 0007501
2-Chlorophenol	MA 0005291
2-Chlorophenol	NC 0004952
2-Chlorophenol	NC 0005274
2-Chlorophenol	SC 0003441
2-Chlorophenol	SC 0003557
2-Chlorophenol	TX 0000949
2-Nitrophenol	AL 0003026
2-Nitrophenol	AL 0023272
2-Nitrophenol	IA 7000102
2-Nitrophenol	IL 0000141
2-Nitrophenol	IL 0001643
2-Nitrophenol	IN 0002101
2-Nitrophenol	LA 0007501
2-Nitrophenol	MA 0005291
2-Nitrophenol	NC 0004952
2-Nitrophenol	NC 0005274
2-Nitrophenol	SC 0003441
2-Nitrophenol	SC 0003557
2-Nitrophenol	TX 0000949
3,3-Dichlorobenzidine	WI 0000531
3,3-Dichlorobenzidine	WI 0000914
3,3-Dichlorobenzidine	WI 0001341
3,4-Benzofluoranthene	AL 0003026
3,4-Benzofluoranthene	AL 0023272
3,4-Benzofluoranthene	IA 7000102
3,4-Benzofluoranthene	IL 0000141
3,4-Benzofluoranthene	IL 0001643
3,4-Benzofluoranthene	IN 0002101
3,4-Benzofluoranthene	LA 0007501
3,4-Benzofluoranthene	MA 0005291
3,4-Benzofluoranthene	NC 0004952
3,4-Benzofluoranthene	NC 0005274
3,4-Benzofluoranthene	SC 0003441
3,4-Benzofluoranthene	SC 0003557
3,4-Benzofluoranthene	TX 0000949
4, 4'-DDT	WI 0000531
4, 4'-DDT	WI 0000914
4, 4'-DDT	WI 0001341
4,6-Dinitro-o-cresol	AL 0003026
4,6-Dinitro-o-cresol	AL 0023272
4,6-Dinitro-o-cresol	IA 7000102
4,6-Dinitro-o-cresol	IL 0000141
4,6-Dinitro-o-cresol	IL 0001643
4,6-Dinitro-o-cresol	IN 0002101
4,6-Dinitro-o-cresol	LA 0007501
4,6-Dinitro-o-cresol	MA 0005291
4,6-Dinitro-o-cresol	NC 0004952
4,6-Dinitro-o-cresol	NC 0005274
4,6-Dinitro-o-cresol	SC 0003441
4,6-Dinitro-o-cresol	SC 0003557
4,6-Dinitro-o-cresol	TX 0000949
4-Nitrophenol	AL 0003026
4-Nitrophenol	AL 0023272
4-Nitrophenol	IA 7000102
4-Nitrophenol	IL 0000141
4-Nitrophenol	IL 0001643
4-Nitrophenol	IN 0002101
4-Nitrophenol	LA 0007501
4-Nitrophenol	MA 0005291
4-Nitrophenol	NC 0004952
4-Nitrophenol	NC 0005274
4-Nitrophenol	SC 0003441
4-Nitrophenol	SC 0003557
4-Nitrophenol	TX 0000949
AOX	ID 0001163
AOX	ME 0002054
AOX	ME 0002321
AOX	MN 0001643
AOX	TX 0000167
Acenaphthene	AL 0003026
Acenaphthene	AL 0023272
Acenaphthene	CO 0042064
Acenaphthene	IA 7000102
Acenaphthene	IL 0000141
Acenaphthene	IL 0001643
Acenaphthene	IN 0002101
Acenaphthene	LA 0007501
Acenaphthene	MA 0005291
Acenaphthene	NC 0004952
Acenaphthene	NC 0005274
Acenaphthene	SC 0003441
Acenaphthene	SC 0003557
Acenaphthene	TX 0000949
Acenaphthylene	AL 0003026
Acenaphthylene	AL 0023272
Acenaphthylene	IA 7000102
Acenaphthylene	IL 0000141

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Acenaphthylene	IL 0001643
Acenaphthylene	IN 0002101
Acenaphthylene	LA 0007501
Acenaphthylene	MA 0005291
Acenaphthylene	NC 0004952
Acenaphthylene	NC 0005274
Acenaphthylene	SC 0003441
Acenaphthylene	SC 0003557
Acenaphthylene	TX 0000949
Acetonitrile	OH 0002615
Acrolein	CO 0042064
Acrolein	WI 0000531
Acrolein	WI 0000914
Acrolein	WI 0001341
Acrylonitrile	AL 0003026
Acrylonitrile	AL 0023272
Acrylonitrile	CO 0042064
Acrylonitrile	IA 7000102
Acrylonitrile	IL 0000141
Acrylonitrile	IL 0001643
Acrylonitrile	IN 0002101
Acrylonitrile	LA 0007501
Acrylonitrile	MA 0005291
Acrylonitrile	NC 0004952
Acrylonitrile	NC 0005274
Acrylonitrile	OH 0002615
Acrylonitrile	SC 0003441
Acrylonitrile	SC 0003557
Acrylonitrile	TX 0000949
Acute WET	AK 0000841
Acute WET	AL 0002666
Acute WET	AL 0002968
Acute WET	AL 0003026
Acute WET	AR 0000388
Acute WET	AR 0035823
Acute WET	AR 0036544
Acute WET	CA 0105139
Acute WET	CO 0000230
Acute WET	CO 0001121
Acute WET	CO 0026620
Acute WET	CO 0042064
Acute WET	CT 0000850
Acute WET	CT 0001180
Acute WET	CT 0001601
Acute WET	CT 0003263
Acute WET	HI 0000191
Acute WET	HI 0000281
Acute WET	IA 0000132
Acute WET	IA 3126107
Acute WET	IA 7000102
Acute WET	IL 0001643
Acute WET	IL 0003140
Acute WET	IN 0002101
Acute WET	IN 0036447
Acute WET	IN 0038172
Acute WET	KS 0000817
Acute WET	KS 0001601
Acute WET	LA 0000418
Acute WET	LA 0007579
Acute WET	MA 0004171

Parameter Name	Permit Number
Acute WET	MA 0005011
Acute WET	MA 0005291
Acute WET	ME 0002054
Acute WET	ME 0002321
Acute WET	ME 0022314
Acute WET	MN 0001422
Acute WET	MN 0001643
Acute WET	MN 0038962
Acute WET	ND 0024368
Acute WET	ND 0025232
Acute WET	NH 0001261
Acute WET	OH 0009997
Acute WET	OK 0041629
Acute WET	OR 0000060
Acute WET	RI 0000043
Acute WET	SC 0003557
Acute WET	SD 0000281
Acute WET	TN 0067199
Acute WET	WA 0002925
Acute WET	WI 0000531
Acute WET	WI 0000914
Acute WET	WI 0001341
Acute WET	WI 0051764
Acute WET	WV 0004626
Acute WET	WV 0005495
Acute WET	WY 0000442
Acute WET	WY 0001171
Acute WET	WY 0032590
Ag	CT 0001180
Ag	GA 0027707
Ag	IN 0002101
Ag	SC 0000515
Ag	TN 0000353
Ag (DS)	CO 0000230
Ag (T)	AR 0000388
Ag (T)	IA 0003395
Ag (T)	IA 3126107
Ag (T)	LA 0004847
Ag (T)	ME 0022861
Ag (T)	MS 0000931
Ag (T)	OH 0000621
Ag (T)	OH 0009997
Ag (TR)	AL 0002666
Ag (TR)	CO 0042064
Ag (TR)	SD 0000043
Al	CT 0001180
Al	GA 0027707
Al	OR 0000060
Al	SC 0003441
Al	TN 0067199
Al	WI 0000531
Al	CO 0000230
Al (DS)	ID 0001163
Al (DS)	MS 0000931
Al (S)	GA 0027707
Al (T)	IA 0003395
Al (T)	LA 0004847
Al (T)	MA 0004171
Al (T)	MS 0000931
Al (T)	NH 0020788

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Al (T)	WV 0005495
Al (TR)	CO 0042064
Al (TR)	ID 0001163
Al (TR)	IN 0002101
Al (TR)	IN 0053384
Al (TR)	KY 0004049
Al (soluble)	MS 0000931
Aldicarb	CO 0042064
Aldrin	CO 0042064
Aldrin	WI 0000531
Alkalinity	AR 0035823
Alkalinity	LA 0000418
Alpha (DS)	KY 0004049
Alpha (SS)	KY 0004049
Alpha (T)	CO 0042064
Alpha (T)	LA 0004847
Alpha-BHC	WI 0000531
Alpha-BHC	WI 0000914
Alpha-BHC	WI 0001341
Ametryoe	HI 0021148
Anthracene	AL 0003026
Anthracene	AL 0023272
Anthracene	IA 7000102
Anthracene	IL 0000141
Anthracene	IL 0001643
Anthracene	IN 0002101
Anthracene	LA 0007501
Anthracene	MA 0005291
Anthracene	NC 0004952
Anthracene	NC 0005274
Anthracene	SC 0003441
Anthracene	SC 0003557
Anthracene	TX 0000949
Aromatic hydrocarbons	AK 0000841
As	CA 0028797
As	SC 0000515
As	SC 0003441
As (DS)	CO 0000230
As (DS)	ID 0001163
As (T)	AR 0000388
As (T)	CO 0042064
As (T)	IA 0003395
As (T)	LA 0004847
As (T)	OH 0009997
As (T)	WV 0004626
As (T)	WY 0032590
As (TR)	AK 0043192
As (TR)	ID 0001163
As (TR)	OH 0005282
As (TR)	SD 0000043
Asbestos (fibrous)	CO 0042064
Atrazine	HI 0021148
Au	CT 0001180
B	CO 0042064
B	IL 0000141
B	SC 0000515
BETX	SD 0000281
BHC	CO 0042064
BHC	WI 0000531
BHC	WI 0000914
BHC	WI 0001341
BOD5	AK 0000841
BOD5	AK 0029840
BOD5	AK 0049786
BOD5	AL 0002968
BOD5	AL 0003026
BOD5	AL 0023272
BOD5	AR 0000388
BOD5	AR 0003018
BOD5	AR 0035823
BOD5	AR 0036544
BOD5	CA 0004839
BOD5	CA 0028797
BOD5	CO 0000230
BOD5	CO 0001121
BOD5	CO 0026620
BOD5	CO 0042064
BOD5	CT 0000850
BOD5	CT 0001180
BOD5	GA 0001791
BOD5	GA 0003620
BOD5	GA 0003760
BOD5	GA 0027707
BOD5	HI 0000191
BOD5	HI 0000281
BOD5	IA 3126107
BOD5	IA 7000102
BOD5	ID 0001163
BOD5	ID 0001180
BOD5	ID 0027154
BOD5	IL 0000141
BOD5	IL 0001643
BOD5	IL 0003140
BOD5	IL 0004073
BOD5	IN 0002101
BOD5	IN 0036447
BOD5	KS 0000434
BOD5	KS 0000817
BOD5	KS 0001635
BOD5	KY 0004049
BOD5	LA 0004847
BOD5	LA 0007501
BOD5	MA 0004171
BOD5	MA 0005011
BOD5	MA 0005291
BOD5	ME 0002054
BOD5	ME 0002321
BOD5	MN 0001643
BOD5	MS 0000931
BOD5	MS 0001783
BOD5	MS 0035882
BOD5	MS 0047759
BOD5	NC 0004952
BOD5	NC 0005274
BOD5	NC 0005479
BOD5	ND 0024368
BOD5	ND 0025038
BOD5	ND 0025232
BOD5	NH 0001261
BOD5	OH 0000621

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
BOD5	OK 0041629
BOD5	OR 0000060
BOD5	OR 0000141
BOD5	OR 0000515
BOD5	RI 0000043
BOD5	RI 0021920
BOD5	SC 0000515
BOD5	SC 0001368
BOD5	SC 0003441
BOD5	SC 0003557
BOD5	SD 0000281
BOD5	TN 0067199
BOD5	TX 0000167
BOD5	VT 0020401
BOD5	VT 0020702
BOD5	VT 0020966
BOD5	WA 0002925
BOD5	WI 0000531
BOD5	WI 0001341
BOD5	WI 0051764
BOD5	WV 0004626
BOD5	WV 0005495
BOD5	WV 0042641
BOD5	WY 0000442
BOD5	WY 0003115
Ba	IA 0003395
Ba	SC 0000515
Ba (T)	AL 0002666
Ba (T)	HI 0021148
Ba (T)	IL 0000141
Ba (TR)	CO 0042064
Be (T)	LA 0004847
Be (TR)	CO 0042064
Be (TR)	OH 0005282
Benzene	AL 0003026
Benzene	AL 0023272
Benzene	CA 0105139
Benzene	CO 0042064
Benzene	IA 7000102
Benzene	IL 0000141
Benzene	IL 0001643
Benzene	IL 0004073
Benzene	IN 0002101
Benzene	LA 0007501
Benzene	MA 0005291
Benzene	ME 0022314
Benzene	NC 0004952
Benzene	NC 0005274
Benzene	RI 0021946
Benzene	SC 0003441
Benzene	SC 0003557
Benzene	TX 0000949
Benzidine	CO 0042064
Benzo (a) anthracene	AL 0003026
Benzo (a) anthracene	AL 0023272
Benzo (a) anthracene	IA 7000102
Benzo (a) anthracene	IL 0000141
Benzo (a) anthracene	IL 0001643
Benzo (a) anthracene	IN 0002101
Benzo (a) anthracene	LA 0007501

Parameter Name	Permit Number
Benzo (a) anthracene	MA 0005291
Benzo (a) anthracene	NC 0004952
Benzo (a) anthracene	NC 0005274
Benzo (a) anthracene	SC 0003441
Benzo (a) anthracene	SC 0003557
Benzo (a) anthracene	TX 0000949
Benzo (a) pyrene	AL 0003026
Benzo (a) pyrene	AL 0023272
Benzo (a) pyrene	IA 7000102
Benzo (a) pyrene	IL 0000141
Benzo (a) pyrene	IL 0001643
Benzo (a) pyrene	LA 0007501
Benzo (a) pyrene	MA 0005291
Benzo (a) pyrene	NC 0004952
Benzo (a) pyrene	NC 0005274
Benzo (a) pyrene	OR 0000060
Benzo (a) pyrene	SC 0003441
Benzo (a) pyrene	SC 0003557
Benzo (a) pyrene	TX 0000949
Benzo (d) pyrene	IN 0002101
Benzo (k) fluoranthane	AL 0003026
Benzo (k) fluoranthane	AL 0023272
Benzo (k) fluoranthane	IA 7000102
Benzo (k) fluoranthane	IL 0000141
Benzo (k) fluoranthane	IL 0001643
Benzo (k) fluoranthane	IN 0002101
Benzo (k) fluoranthane	LA 0007501
Benzo (k) fluoranthane	MA 0005291
Benzo (k) fluoranthane	NC 0004952
Benzo (k) fluoranthane	NC 0005274
Benzo (k) fluoranthane	SC 0003441
Benzo (k) fluoranthane	SC 0003557
Benzo (k) fluoranthane	TX 0000949
Beta (DS)	KY 0004049
Beta (SS)	KY 0004049
Beta (T)	CO 0042064
Beta-BHC	WI 0000531
Beta-BHC	WI 0000914
Beta-BHC	WI 0001341
Bis (2-chlorisopropyl) ether	IA 7000102
Bis (2-chlorisopropyl) ether	IN 0002101
Bis (2-chlorisopropyl) ether	NC 0004952
Bis (2-chloroethyl) ether	CO 0042064
Bis (2-ethylhexyl) phthalate	AL 0003026
Bis (2-ethylhexyl) phthalate	AL 0023272
Bis (2-ethylhexyl) phthalate	IA 7000102
Bis (2-ethylhexyl) phthalate	IL 0000141
Bis (2-ethylhexyl) phthalate	IL 0001643
Bis (2-ethylhexyl) phthalate	IN 0002101
Bis (2-ethylhexyl) phthalate	LA 0007501
Bis (2-ethylhexyl) phthalate	MA 0005291
Bis (2-ethylhexyl) phthalate	NC 0004952
Bis (2-ethylhexyl) phthalate	NC 0005274
Bis (2-ethylhexyl) phthalate	NC 0005479
Bis (2-ethylhexyl) phthalate	SC 0003441
Bis (2-ethylhexyl) phthalate	SC 0003557
Bis (2-ethylhexyl) phthalate	TX 0000949
Boron (B)	MA 0003557
Br	AL 0002666
Bromoform	GA 0027707

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Bromoform	MA 0005291
CBOD5	AR 0003018
CBOD5	IL 0001643
CBOD5	MN 0001422
CBOD5	MN 0038962
CBOD5	OH 0000621
CBOD5	OH 0002615
CBOD5	OH 0005282
CBOD5	TN 0067199
CBOD5	TX 0000949
CN	IL 0003140
CN	IN 0002101
CN	IN 0053384
CN	OR 0000060
CN	VT 0000272
CN (A)	GA 0027707
CN (T)	AL 0003026
CN (T)	AL 0023272
CN (T)	CO 0000230
CN (T)	CT 0001180
CN (T)	GA 0027707
CN (T)	IA 0003395
CN (T)	IA 3126107
CN (T)	IA 7000102
CN (T)	IL 0000141
CN (T)	IL 0001643
CN (T)	IN 0038172
CN (T)	MA 0005291
CN (T)	ME 0022861
CN (T)	MS 0000931
CN (T)	NC 0004952
CN (T)	NC 0005274
CN (T)	OH 0002615
CN (T)	OH 0009997
CN (T)	SC 0003441
CN (T)	TN 0000353
CN (T)	WI 0000531
CN (WAD)	SD 0000043
CN (free)	CO 0042064
CN (free)	OH 0009997
COD	AK 0000841
COD	AL 0002968
COD	AL 0003026
COD	AR 0036544
COD	GA 0001791
COD	GA 0003760
COD	IA 7000102
COD	IL 0004073
COD	IN 0002101
COD	KS 0000434
COD	KS 0001601
COD	LA 0004847
COD	LA 0007501
COD	MA 0004171
COD	MS 0047759
COD	NC 0005479
COD	ND 0024368
COD	ND 0025232
COD	NJ 0031895
COD	NJ 0070696

Parameter Name	Permit Number
COD	RI 0000043
COD	SC 0001368
COD	TN 0067199
COD	VT 0020702
COD	WI 0001341
COD	WV 0004626
COD	WV 0004707
COD	WV 0005495
COD	WY 0000442
CS2	AL 0003026
CS2	CO 0042064
Carbofuran	CO 0042064
Carbon tetrachloride	AL 0003026
Carbon tetrachloride	AL 0023272
Carbon tetrachloride	CO 0042064
Carbon tetrachloride	IA 7000102
Carbon tetrachloride	IL 0000141
Carbon tetrachloride	IL 0001643
Carbon tetrachloride	IN 0002101
Carbon tetrachloride	LA 0007501
Carbon tetrachloride	MA 0005291
Carbon tetrachloride	NC 0004952
Carbon tetrachloride	NC 0005274
Carbon tetrachloride	SC 0003441
Carbon tetrachloride	SC 0003557
Carbon tetrachloride	TX 0000949
Cd	CA 0028797
Cd	CT 0001180
Cd	GA 0027707
Cd	SC 0000515
Cd	TN 0000353
Cd	VT 0000272
Cd	VT 0020401
Cd (DS)	CO 0000230
Cd (T)	AR 0000388
Cd (T)	CO 0000230
Cd (T)	GA 0027707
Cd (T)	IA 0003395
Cd (T)	IA 3126107
Cd (T)	IL 0000141
Cd (T)	LA 0004847
Cd (T)	ME 0022861
Cd (T)	MS 0000931
Cd (T)	OH 0009997
Cd (T)	OK 0041629
Cd (T)	RI 0000043
Cd (T)	SC 0000515
Cd (TR)	AL 0023272
Cd (TR)	CO 0042064
Cd (TR)	KY 0004049
Cd (TR)	OH 0005282
Cd (TR)	SD 0000043
Chlordane	CO 0042064
Chlordane	WI 0000531
Chlordane	WI 0000914
Chlordane	WI 0001341
Chloride	AL 0002666
Chloride	AL 0003026
Chloride	AL 0023272
Chloride	CO 0042064

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Chloride	IL 0000141
Chloride	IL 0004073
Chloride	IN 0002101
Chloride	IN 0038172
Chloride	MS 0047759
Chloride	WI 0051764
Chloride	WV 0004626
Chloride	WV 0004707
Chloride	WV 0005495
Chlorobenzene	AL 0003026
Chlorobenzene	AL 0023272
Chlorobenzene	CO 0042064
Chlorobenzene	IA 7000102
Chlorobenzene	IL 0000141
Chlorobenzene	IL 0001643
Chlorobenzene	IN 0002101
Chlorobenzene	LA 0007501
Chlorobenzene	MA 0005291
Chlorobenzene	NC 0004952
Chlorobenzene	NC 0005274
Chlorobenzene	RI 0022021
Chlorobenzene	SC 0003441
Chlorobenzene	SC 0003557
Chlorobenzene	TX 0000949
Chlorodibromomethane	RI 0022021
Chloroethane	AL 0003026
Chloroethane	AL 0023272
Chloroethane	IA 7000102
Chloroethane	IL 0000141
Chloroethane	IL 0001643
Chloroethane	IN 0002101
Chloroethane	LA 0007501
Chloroethane	MA 0005291
Chloroethane	NC 0004952
Chloroethane	NC 0005274
Chloroethane	SC 0003441
Chloroethane	SC 0003557
Chloroethane	TX 0000949
Chloroform	AL 0003026
Chloroform	AL 0023272
Chloroform	IA 7000102
Chloroform	ID 0001163
Chloroform	IL 0000141
Chloroform	IL 0001643
Chloroform	IN 0002101
Chloroform	LA 0007501
Chloroform	MA 0005291
Chloroform	NC 0004952
Chloroform	NC 0005274
Chloroform	SC 0003441
Chloroform	SC 0003557
Chloroform	TX 0000949
Chlorosyringaldehyde	MN 0001643
Chronic WET	AK 0000841
Chronic WET	AL 0023272
Chronic WET	AR 0000388
Chronic WET	AR 0003018
Chronic WET	CA 0004839
Chronic WET	CA 0028797
Chronic WET	CO 0000230
Chronic WET	CO 0001121
Chronic WET	CO 0042064
Chronic WET	CT 0000850
Chronic WET	CT 0001180
Chronic WET	CT 0001601
Chronic WET	CT 0003263
Chronic WET	HI 0000191
Chronic WET	HI 0000281
Chronic WET	ID 0001163
Chronic WET	IL 0004073
Chronic WET	IN 0038172
Chronic WET	KY 0004049
Chronic WET	LA 0004847
Chronic WET	LA 0007579
Chronic WET	MA 0005011
Chronic WET	ME 0002321
Chronic WET	ME 0022861
Chronic WET	MS 0000931
Chronic WET	NC 0004952
Chronic WET	NC 0005274
Chronic WET	NC 0005479
Chronic WET	OH 0000621
Chronic WET	OH 0002615
Chronic WET	OH 0009997
Chronic WET	OR 0000060
Chronic WET	OR 0000141
Chronic WET	OR 0000515
Chronic WET	OR 0001635
Chronic WET	SC 0000515
Chronic WET	SC 0001368
Chronic WET	SC 0003441
Chronic WET	SD 0000043
Chronic WET	TN 0000353
Chronic WET	TN 0067199
Chronic WET	TX 0000167
Chronic WET	TX 0000949
Chronic WET	WI 0000531
Chronic WET	WI 0001341
Chronic WET	WI 0051764
Chronic WET	WV 0005495
Chronic WET	WY 0032590
Chrysene	AL 0003026
Chrysene	AL 0023272
Chrysene	IA 7000102
Chrysene	IL 0000141
Chrysene	IL 0001643
Chrysene	IN 0002101
Chrysene	LA 0007501
Chrysene	MA 0005291
Chrysene	NC 0004952
Chrysene	NC 0005274
Chrysene	SC 0003441
Chrysene	SC 0003557
Chrysene	TX 0000949
Cl	AR 0003018
Cl	IL 0004073
Clarifying agents	AR 0035823
Clarifying agents	LA 0000418
Clarifying agents	LA 0004847
Co	CA 0004839

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Co (T)	AL 0002666
Co (T)	MA 0005291
Co (TR)	CO 0042064
Coliform (T)	CA 0004839
Coliform (T)	CT 0000850
Coliform (T)	IN 0036447
Coliform (T)	ND 0025232
Coliform (T)	RI 0000043
Color	AL 0002968
Color	GA 0003620
Color	MA 0004171
Color	MA 0005291
Color	ME 0002054
Color	ME 0002321
Color	OH 0000621
Color	OH 0005282
Color	OR 0000515
Cr	CA 0004839
Cr	GA 0027707
Cr	LA 0007579
Cr	SC 0000515
Cr	SC 0003441
Cr	TN 0000353
Cr (T)	AK 0000841
Cr (T)	AL 0002968
Cr (T)	AL 0003026
Cr (T)	AL 0023272
Cr (T)	CO 0001121
Cr (T)	CT 0001180
Cr (T)	CT 0001601
Cr (T)	GA 0001791
Cr (T)	GA 0003760
Cr (T)	GA 0027707
Cr (T)	IA 0003395
Cr (T)	IA 3126107
Cr (T)	IA 7000102
Cr (T)	IL 0000141
Cr (T)	IL 0004073
Cr (T)	IN 0002101
Cr (T)	IN 0038172
Cr (T)	KS 0000434
Cr (T)	KY 0004049
Cr (T)	LA 0004847
Cr (T)	MA 0005291
Cr (T)	ME 0022861
Cr (T)	MN 0038962
Cr (T)	MS 0000931
Cr (T)	MS 0047759
Cr (T)	NC 0004952
Cr (T)	NC 0005274
Cr (T)	OH 0000621
Cr (T)	OH 0009997
Cr (T)	RI 0000043
Cr (T)	SC 0001368
Cr (T)	VT 0000272
Cr (T)	WV 0004626
Cr (T)	WY 0000442
Cr (TR)	AL 0002666
Cr (TR)	CO 0042064
Cr (TR)	IL 0001643
Cr (TR)	KY 0004049
Cr (TR)	OH 0005282
Cr (TR)	SD 0000043
Cr+3	VT 0020401
Cr+6	AK 0000841
Cr+6	CA 0028797
Cr+6	CO 0000230
Cr+6	CO 0042064
Cr+6	CT 0001601
Cr+6	IA 3126107
Cr+6	IL 0004073
Cr+6	IN 0038172
Cr+6	KS 0000434
Cr+6	KY 0004049
Cr+6	ME 0022861
Cr+6	MN 0038962
Cr+6	MS 0000931
Cr+6	OH 0009997
Cr+6	WI 0000531
Cr+6	WV 0004626
Cr+6	WY 0000442
Cr+6 (DS)	OH 0000621
Cr+6 (DS)	OH 0009997
Cr+6 (S)	ID 0001163
Cu	AK 0043192
Cu	CA 0028797
Cu	CT 0001180
Cu	CT 0001601
Cu	GA 0001791
Cu	GA 0027707
Cu	LA 0007579
Cu	MS 0035882
Cu	SC 0001368
Cu	SC 0003441
Cu	TN 0000353
Cu	VT 0000272
Cu	VT 0020401
Cu	WA 0037265
Cu	WV 0042641
Cu (DS)	CO 0000230
Cu (DS)	CO 0042064
Cu (DS)	ID 0001163
Cu (T)	AL 0003026
Cu (T)	AL 0023272
Cu (T)	AR 0000388
Cu (T)	CO 0000230
Cu (T)	CT 0003263
Cu (T)	IA 0003395
Cu (T)	IA 3126107
Cu (T)	IA 7000102
Cu (T)	IL 0000141
Cu (T)	IL 0001643
Cu (T)	LA 0004847
Cu (T)	LA 0007501
Cu (T)	MA 0004171
Cu (T)	MA 0005291
Cu (T)	ME 0022861
Cu (T)	MN 0002011
Cu (T)	MS 0000931
Cu (T)	NC 0004952

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Cu (T)	NC 0005274
Cu (T)	ND 0025232
Cu (T)	NH 0001465
Cu (T)	NH 0020788
Cu (T)	OH 0000621
Cu (T)	OH 0009997
Cu (T)	RI 0000043
Cu (T)	SC 0000515
Cu (T)	TX 0000949
Cu (T)	WI 0000914
Cu (T)	WI 0051764
Cu (T)	WV 0004626
Cu (T)	WY 0003115
Cu (T)	WY 0032590
Cu (TR)	AK 0043192
Cu (TR)	AL 0002666
Cu (TR)	AL 0002968
Cu (TR)	AL 0003026
Cu (TR)	AL 0023272
Cu (TR)	ID 0001163
Cu (TR)	IN 0002101
Cu (TR)	IN 0038172
Cu (TR)	KY 0004049
Cu (TR)	OH 0005282
Cu (TR)	SD 0000043
DDD	CO 0042064
DDE	CO 0042064
DDT and derivatives	CO 0042064
DO	AL 0002968
DO	AR 0003018
DO	CA 0004839
DO	CA 0028797
DO	CO 0042064
DO	HI 0000281
DO	HI 0021148
DO	IA 3126107
DO	ID 0001180
DO	ID 0027154
DO	KS 0000434
DO	MS 0035882
DO	NC 0005274
DO	NC 0005479
DO	ND 0024368
DO	NH 0001465
DO	OH 0002615
DO	OH 0005282
DO	SC 0001368
DO	SC 0003441
DO	SC 0003557
DO	TN 0067199
DO	TX 0000949
DO	WV 0005495
Demeton	CO 0042064
Di-n-butyl phthalate	AL 0003026
Di-n-butyl phthalate	AL 0023272
Di-n-butyl phthalate	IA 7000102
Di-n-butyl phthalate	IL 0000141
Di-n-butyl phthalate	IL 0001643
Di-n-butyl phthalate	IN 0002101
Di-n-butyl phthalate	LA 0007501
Di-n-butyl phthalate	MA 0005291
Di-n-butyl phthalate	NC 0004952
Di-n-butyl phthalate	NC 0005274
Di-n-butyl phthalate	SC 0003441
Di-n-butyl phthalate	SC 0003557
Di-n-butyl phthalate	TX 0000949
Dichloropropene	CO 0042064
Dieldrin	CO 0042064
Dieldrin	WI 0000531
Dieldrin	WI 0000914
Dieldrin	WI 0001341
Diethyl phthalate	AL 0003026
Diethyl phthalate	AL 0023272
Diethyl phthalate	IA 7000102
Diethyl phthalate	IL 0000141
Diethyl phthalate	IL 0001643
Diethyl phthalate	IN 0002101
Diethyl phthalate	LA 0007501
Diethyl phthalate	MA 0005291
Diethyl phthalate	NC 0004952
Diethyl phthalate	NC 0005274
Diethyl phthalate	SC 0003441
Diethyl phthalate	SC 0003557
Diethyl phthalate	TX 0000949
Dimethyl phthalate	AL 0003026
Dimethyl phthalate	AL 0023272
Dimethyl phthalate	IA 7000102
Dimethyl phthalate	IL 0000141
Dimethyl phthalate	IL 0001643
Dimethyl phthalate	IN 0002101
Dimethyl phthalate	LA 0007501
Dimethyl phthalate	MA 0005291
Dimethyl phthalate	NC 0004952
Dimethyl phthalate	NC 0005274
Dimethyl phthalate	SC 0003441
Dimethyl phthalate	SC 0003557
Dimethyl phthalate	TX 0000949
Dinitrotoluene	CO 0042064
Endosulfan sulfate	CO 0042064
Endosulfan sulfate	WI 0000531
Endosulfan sulfate	WI 0001341
Endrin	CO 0042064
Endrin	WI 0000531
Endrin	WI 0000914
Endrin	WI 0001341
Ethylbenzene	AL 0003026
Ethylbenzene	AL 0023272
Ethylbenzene	CA 0028797
Ethylbenzene	CA 0105139
Ethylbenzene	CO 0042064
Ethylbenzene	IA 7000102
Ethylbenzene	IL 0000141
Ethylbenzene	IL 0001643
Ethylbenzene	IL 0004073
Ethylbenzene	IN 0002101
Ethylbenzene	LA 0007501
Ethylbenzene	MA 0005291
Ethylbenzene	ME 0022314
Ethylbenzene	NC 0004952
Ethylbenzene	NC 0005274

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Ethylbenzene	RI 0021946
Ethylbenzene	RI 0022021
Ethylbenzene	SC 0003441
Ethylbenzene	SC 0003557
Ethylbenzene	TX 0000949
Ethylene glycol	CO 0026620
FAC	CT 0003263
FAC	LA 0007579
FAC	NH 0021652
FAC	VT 0020401
FC	AK 0029840
FC	AR 0003018
FC	CO 0000230
FC	CO 0001121
FC	CO 0026620
FC	CO 0042064
FC	CT 0000850
FC	GA 0001791
FC	GA 0027707
FC	IA 3126107
FC	ID 0001180
FC	ID 0027154
FC	IL 0000141
FC	IL 0003140
FC	IN 0002101
FC	KS 0000817
FC	KY 0004049
FC	LA 0004847
FC	MA 0004171
FC	MN 0038962
FC	MS 0001783
FC	MS 0035882
FC	MS 0047759
FC	NC 0004952
FC	NC 0005479
FC	ND 0024368
FC	OH 0000621
FC	OH 0005282
FC	OR 0000060
FC	OR 0000141
FC	RI 0000043
FC	SC 0000515
FC	SC 0001368
FC	SC 0003441
FC	SC 0003557
FC	SD 0000281
FC	WV 0004626
FC	WV 0005495
FC	WV 0042641
FC	WY 0003115
Fe	CT 0001180
Fe	CT 0001601
Fe	GA 0027707
Fe	LA 0007579
Fe	VT 0020401
Fe (DS)	CO 0042064
Fe (T)	AR 0000388
Fe (T)	IL 0003140
Fe (T)	MA 0005291
Fe (T)	MN 0002011

Parameter Name	Permit Number
Fe (T)	ND 0025038
Fe (T)	ND 0025232
Fe (T)	NH 0001465
Fe (T)	NH 0020788
Fe (T)	NJ 0003310
Fe (T)	OH 0009997
Fe (T)	SC 0000515
Fe (T)	WI 0000914
Fe (T)	WV 0004707
Fe (T)	WY 0003115
Fe (T)	WY 0032590
Fe (TR)	CO 0000230
Fe (TR)	CO 0001121
Fe (TR)	CO 0042064
Fe (TR)	KY 0004049
Fecal streptococci (FS)	AR 0003018
Fecal streptococci (FS)	CT 0000850
Filterable Residue (T)	OH 0000621
Fl	AL 0002666
Fl	CO 0042064
Fl	IA 0003395
Fl	IL 0000141
Fl	IL 0003140
Fl	LA 0004847
Fl	ME 0022861
Fl	OH 0009997
Fl	OR 0000060
Fl	TN 0067199
Flow	AK 0000841
Flow	AK 0029840
Flow	AK 0043192
Flow	AK 0049786
Flow	AL 0002666
Flow	AL 0002968
Flow	AL 0003026
Flow	AL 0023272
Flow	AR 0000388
Flow	AR 0003018
Flow	AR 0035823
Flow	AR 0036544
Flow	CA 0004839
Flow	CA 0028797
Flow	CA 0048755
Flow	CA 0105139
Flow	CO 0000230
Flow	CO 0001121
Flow	CO 0026620
Flow	CO 0042064
Flow	CT 0000850
Flow	CT 0001180
Flow	CT 0001601
Flow	CT 0003263
Flow	GA 0001791
Flow	GA 0003620
Flow	GA 0003760
Flow	GA 0027707
Flow	HI 0000191
Flow	HI 0000281
Flow	HI 0020796
Flow	HI 0021148

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Flow	IA 0000132
Flow	IA 0003395
Flow	IA 3126107
Flow	ID 0000825
Flow	ID 0001163
Flow	ID 0001180
Flow	ID 0027154
Flow	IL 0000141
Flow	IL 0001643
Flow	IL 0003140
Flow	IL 0004073
Flow	IN 0002101
Flow	IN 0036447
Flow	IN 0038172
Flow	IN 0053384
Flow	KS 0000434
Flow	KS 0000817
Flow	KS 0001601
Flow	KS 0001635
Flow	KY 0004049
Flow	LA 0000418
Flow	LA 0004847
Flow	LA 0007501
Flow	LA 0007579
Flow	MA 0003557
Flow	MA 0004171
Flow	MA 0005011
Flow	MA 0005291
Flow	ME 0002054
Flow	ME 0002321
Flow	ME 0022314
Flow	ME 0022861
Flow	MN 0001422
Flow	MN 0001643
Flow	MN 0002011
Flow	MN 0002186
Flow	MN 0038962
Flow	MS 0000931
Flow	MS 0001783
Flow	MS 0035882
Flow	MS 0047759
Flow	NC 0004952
Flow	NC 0005274
Flow	NC 0005479
Flow	ND 0023809
Flow	ND 0024368
Flow	ND 0025038
Flow	ND 0025232
Flow	NH 0001261
Flow	NH 0001465
Flow	NH 0020788
Flow	NH 0021652
Flow	NJ 0003310
Flow	NJ 0031895
Flow	NJ 0070696
Flow	OH 0000621
Flow	OH 0002615
Flow	OH 0005282
Flow	OH 0009997
Flow	OK 0041629
Flow	OR 0000060
Flow	OR 0000141
Flow	OR 0000515
Flow	OR 0001635
Flow	RI 0000043
Flow	RI 0021920
Flow	RI 0021946
Flow	RI 0022021
Flow	SC 0000515
Flow	SC 0001368
Flow	SC 0003441
Flow	SC 0003557
Flow	SD 0000043
Flow	SD 0000281
Flow	SD 0025437
Flow	TN 0000353
Flow	TN 0031631
Flow	TN 0067199
Flow	TX 0000167
Flow	TX 0000949
Flow	UT 0000167
Flow	VT 0020401
Flow	VT 0020702
Flow	VT 0020966
Flow	WA 0002925
Flow	WA 0037265
Flow	WI 0000531
Flow	WI 0000914
Flow	WI 0001341
Flow	WI 0051764
Flow	WV 0004626
Flow	WV 0004707
Flow	WV 0005495
Flow	WV 0042641
Flow	WY 0000442
Flow	WY 0001171
Flow	WY 0003115
Flow	WY 0032590
Fluoranthene	AL 0003026
Fluoranthene	AL 0023272
Fluoranthene	CO 0042064
Fluoranthene	IA 7000102
Fluoranthene	IL 0000141
Fluoranthene	IL 0001643
Fluoranthene	IN 0002101
Fluoranthene	LA 0007501
Fluoranthene	MA 0005291
Fluoranthene	NC 0004952
Fluoranthene	NC 0005274
Fluoranthene	SC 0003441
Fluoranthene	SC 0003557
Fluoranthene	TX 0000949
Fluoranthene	WI 0000531
Fluoranthene	WI 0000914
Fluoranthene	WI 0001341
Fluorene	AL 0003026
Fluorene	AL 0023272
Fluorene	IA 7000102
Fluorene	IL 0000141
Fluorene	IL 0001643

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Fluorene	IN 0002101
Fluorene	LA 0007501
Fluorene	MA 0005291
Fluorene	NC 0004952
Fluorene	NC 0005274
Fluorene	SC 0003441
Fluorene	SC 0003557
Fluorene	TX 0000949
Fluoride	CA 0004839
Formaldehyde	ID 0027154
Gamma-BHC	WI 0000531
Gamma-BHC	WI 0000914
Gamma-BHC	WI 0001341
Hardness	CO 0042064
Hardness	KY 0004049
Hardness	SD 0000043
Hardness	WV 0004626
Heptachlor	CO 0042064
Heptachlor	WI 0000531
Heptachlor	WI 0000914
Heptachlor	WI 0001341
Heptachlor epoxide	CO 0042064
Hexachlorobenzene	AL 0003026
Hexachlorobenzene	AL 0023272
Hexachlorobenzene	CO 0042064
Hexachlorobenzene	IA 7000102
Hexachlorobenzene	IL 0000141
Hexachlorobenzene	IL 0001643
Hexachlorobenzene	IN 0002101
Hexachlorobenzene	LA 0007501
Hexachlorobenzene	MA 0005291
Hexachlorobenzene	NC 0004952
Hexachlorobenzene	NC 0005274
Hexachlorobenzene	OH 0000621
Hexachlorobenzene	SC 0003441
Hexachlorobenzene	SC 0003557
Hexachlorobenzene	TX 0000949
Hexachlorobenzene	WI 0000531
Hexachlorobenzene	WI 0000914
Hexachlorobenzene	WI 0001341
Hexachlorobutadiene	AL 0003026
Hexachlorobutadiene	AL 0023272
Hexachlorobutadiene	CO 0042064
Hexachlorobutadiene	IA 7000102
Hexachlorobutadiene	IL 0000141
Hexachlorobutadiene	IL 0001643
Hexachlorobutadiene	IN 0002101
Hexachlorobutadiene	LA 0007501
Hexachlorobutadiene	MA 0005291
Hexachlorobutadiene	NC 0004952
Hexachlorobutadiene	NC 0005274
Hexachlorobutadiene	SC 0003441
Hexachlorobutadiene	SC 0003557
Hexachlorobutadiene	TX 0000949
Hexachlorocyclopentadiene	CO 0042064
Hexachloroethane	AL 0003026
Hexachloroethane	AL 0023272
Hexachloroethane	CO 0042064
Hexachloroethane	IA 7000102
Hexachloroethane	IL 0000141
Hexachloroethane	IL 0001643
Hexachloroethane	IN 0002101
Hexachloroethane	LA 0007501
Hexachloroethane	MA 0005291
Hexachloroethane	NC 0004952
Hexachloroethane	NC 0005274
Hexachloroethane	SC 0003441
Hexachloroethane	SC 0003557
Hexachloroethane	TX 0000949
Hg	AK 0043192
Hg	GA 0027707
Hg	IL 0003140
Hg	LA 0007579
Hg	SC 0000515
Hg (DS)	ID 0001163
Hg (T)	AL 0003026
Hg (T)	CO 0000230
Hg (T)	CO 0042064
Hg (T)	IA 0003395
Hg (T)	LA 0004847
Hg (T)	WI 0000531
Hg (T)	WI 0000914
Hg (T)	WI 0001341
Hg (TR)	AK 0043192
Hg (TR)	ID 0001163
Hg (TR)	OH 0005282
Hg (TR)	SD 0000043
Hydrazine	CT 0003263
Hydrazine	SC 0000515
Isophorone	CO 0042064
Isopropylbiphenyl	IN 0053384
Jet fuel	CO 0026620
K	WI 0051764
Li (T)	CO 0042064
Lindane	CO 0042064
Malathion	CO 0042064
Metals (T)	GA 0027707
Metals (T)	ND 0025232
Metals (rare earth)	AL 0002666
Methoxychlor	CO 0042064
Methyl chloride	AL 0003026
Methyl chloride	AL 0023272
Methyl chloride	IA 7000102
Methyl chloride	IL 0000141
Methyl chloride	IL 0001643
Methyl chloride	IN 0002101
Methyl chloride	LA 0007501
Methyl chloride	MA 0005291
Methyl chloride	NC 0005274
Methyl chloride	SC 0003441
Methyl chloride	SC 0003557
Methyl chloride	TX 0000949
Methyl tert butyl ether	RI 0021946
Methylene chloride	AL 0003026
Methylene chloride	AL 0023272
Methylene chloride	CA 0028797
Methylene chloride	GA 0027707
Methylene chloride	IA 7000102
Methylene chloride	IL 0000141
Methylene chloride	IL 0001643

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Methylene chloride	IN 0002101
Methylene chloride	LA 0007501
Methylene chloride	MA 0005291
Methylene chloride	NC 0004952
Methylene chloride	NC 0005274
Methylene chloride	RI 0022021
Methylene chloride	SC 0003441
Methylene chloride	SC 0003557
Methylene chloride	TX 0000949
Mirex	CO 0042064
Mn	IL 0001643
Mn	IL 0003140
Mn (DS)	CO 0042064
Mn (T)	AL 0002666
Mn (T)	NH 0020788
Mn (T)	OH 0009997
Mn (TR)	CO 0000230
Mo	AL 0002666
Mo (T)	CO 0000230
Mo (TR)	CO 0042064
N (T)	AL 0002666
N (T)	HI 0000191
N (T)	HI 0021148
N (T)	KS 0001601
NH3	CT 0000850
NH3	CT 0001180
NH3	IN 0036447
NH3	OH 0002615
NH3	OH 0005282
NH3	OH 0009997
NH3	SC 0003441
NH3	TN 0000353
NH3	TN 0067199
NH3	WI 0051764
NH3	WV 0005495
NH3 (T)	CO 0001121
NH3 (T)	CO 0042064
NH3 (T)	ID 0000825
NH3 (T)	ID 0027154
NH3 (T)	MN 0038962
NH3 (T)	RI 0000043
NH3 (T)	WA 0037265
NH3-N	AK 0000841
NH3-N	AL 0002666
NH3-N	AL 0002968
NH3-N	AL 0023272
NH3-N	AR 0003018
NH3-N	AR 0036544
NH3-N	CA 0028797
NH3-N	CT 0000850
NH3-N	CT 0003263
NH3-N	HI 0000191
NH3-N	HI 0000281
NH3-N	HI 0021148
NH3-N	IA 3126107
NH3-N	IA 7000102
NH3-N	ID 0001163
NH3-N	IL 0001643
NH3-N	IL 0003140
NH3-N	IL 0004073
NH3-N	KS 0000434
NH3-N	KS 0000817
NH3-N	KS 0001601
NH3-N	LA 0000418
NH3-N	MA 0004171
NH3-N	MA 0005291
NH3-N	MS 0001783
NH3-N	MS 0035882
NH3-N	NC 0005479
NH3-N	ND 0024368
NH3-N	OK 0041629
NH3-N	OR 0001635
NH3-N	RI 0021920
NH3-N	SC 0003557
NH3-N	SD 0000043
NH3-N	TN 0067199
NH3-N	TX 0000949
NH3-N	VT 0020966
NH3-N	WI 0001341
NH3-N	WV 0004626
NH3-N	WV 0005495
NH3-N	WY 0000442
NO2	CO 0042064
NO2	OH 0000621
NO2	WV 0005495
NO2-N	CT 0000850
NO2-N	OH 0002615
NO3	CO 0042064
NO3	ID 0027154
NO3	KS 0001601
NO3	OH 0002615
NO3	SC 0000515
NO3	VT 0020702
NO3	WV 0005495
NO3-N	CT 0000850
NO3-N	LA 0000418
NO3-N	OH 0002615
NO3-N	OR 0001635
Na	NC 0005274
Naphthalene	AL 0003026
Naphthalene	AL 0023272
Naphthalene	CO 0042064
Naphthalene	IA 7000102
Naphthalene	IL 0000141
Naphthalene	IL 0001643
Naphthalene	IN 0002101
Naphthalene	LA 0007501
Naphthalene	MA 0005291
Naphthalene	NC 0004952
Naphthalene	NC 0005274
Naphthalene	OH 0009997
Naphthalene	SC 0003441
Naphthalene	SC 0003557
Naphthalene	SD 0000281
Naphthalene	TX 0000949
Ni	CA 0004839
Ni	CA 0028797
Ni	CT 0001180
Ni	CT 0001601
Ni	GA 0027707

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Ni	OR 0000060
Ni	TN 0000353
Ni	VT 0000272
Ni	VT 0020401
Ni	WA 0037265
Ni (DS)	CO 0000230
Ni (DS)	CO 0042064
Ni (T)	AL 0003026
Ni (T)	AL 0023272
Ni (T)	AR 0000388
Ni (T)	CT 0000850
Ni (T)	IA 0003395
Ni (T)	IA 3126107
Ni (T)	IA 7000102
Ni (T)	IL 0000141
Ni (T)	IL 0001643
Ni (T)	IN 0002101
Ni (T)	LA 0004847
Ni (T)	MA 0005291
Ni (T)	ME 0022861
Ni (T)	MS 0000931
Ni (T)	NC 0004952
Ni (T)	NC 0005274
Ni (T)	OH 0009997
Ni (TR)	AK 0043192
Ni (TR)	AL 0002666
Ni (TR)	AL 0023272
Ni (TR)	KY 0004049
Ni (TR)	OH 0005282
Ni (TR)	SD 0000043
Nitro-n-methyl phthalimide	IN 0002101
Nitrobenzene	AL 0003026
Nitrobenzene	AL 0023272
Nitrobenzene	CO 0042064
Nitrobenzene	IA 7000102
Nitrobenzene	IL 0000141
Nitrobenzene	IL 0001643
Nitrobenzene	IN 0002101
Nitrobenzene	LA 0007501
Nitrobenzene	MA 0005291
Nitrobenzene	NC 0004952
Nitrobenzene	NC 0005274
Nitrobenzene	SC 0003441
Nitrobenzene	SC 0003557
Nitrobenzene	TX 0000949
Nitrobenzene	WI 0000531
Nonfilterable residue (T)	OH 0000621
Nonfilterable residue (T)	OH 0002615
Nonfilterable residue (T)	OH 0005282
Nonfilterable residue (T)	OH 0009997
O&G	AK 0000841
O&G	AK 0049786
O&G	AL 0023272
O&G	AR 0000388
O&G	AR 0003018
O&G	AR 0035823
O&G	AR 0036544
O&G	CA 0004839
O&G	CO 0000230
O&G	CO 0001121
O&G	CO 0026620
O&G	CO 0042064
O&G	CT 0000850
O&G	CT 0001601
O&G	CT 0003263
O&G	GA 0027707
O&G	IA 0000132
O&G	IA 0003395
O&G	IA 3126107
O&G	IL 0000141
O&G	IL 0003140
O&G	IL 0004073
O&G	IN 0038172
O&G	IN 0053384
O&G	KS 0000434
O&G	KS 0000817
O&G	KY 0004049
O&G	LA 0004847
O&G	LA 0007579
O&G	MA 0003557
O&G	MA 0004171
O&G	ME 0022314
O&G	ME 0022861
O&G	MN 0002011
O&G	MN 0038962
O&G	MS 0001783
O&G	MS 0035882
O&G	NC 0004952
O&G	ND 0023809
O&G	ND 0025038
O&G	ND 0025232
O&G	NH 0001465
O&G	NH 0020788
O&G	NH 0021652
O&G	OH 0000621
O&G	OH 0002615
O&G	OH 0005282
O&G	OH 0009997
O&G	OK 0041629
O&G	OR 0000060
O&G	OR 0001635
O&G	RI 0021920
O&G	SC 0000515
O&G	SC 0001368
O&G	SC 0003441
O&G	SC 0003557
O&G	SD 0000043
O&G	SD 0000281
O&G	SD 0025437
O&G	TN 0031631
O&G	TN 0067199
O&G	UT 0000167
O&G	VT 0020401
O&G	WA 0002925
O&G	WI 0000914
O&G	WV 0004626
O&G	WV 0004707
O&G	WV 0005495
O&G	WV 0042641
O&G	WY 0000442

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
O&G	WY 0001171
O&G	WY 0003115
Organic-N	CT 0000850
Organic-N	LA 0000418
Organic-N	OH 0002615
Organic-N	OR 0001635
Other	AL 0003026
Other	AL 0023272
Other	CA 0004839
Other	CA 0028797
Other	CA 0105139
Other	CT 0001180
Other	IA 0000132
Other	IA 7000102
Other	IL 0000141
Other	KS 0000434
Other	KY 0004049
Other	MA 0005291
Other	MN 0002186
Other	NC 0005274
Other	NC 0005479
Other	ND 0024368
Other	NJ 0003310
Other	NJ 0031895
Other	NJ 0070696
Other	OH 0005282
Other	RI 0000043
Other	RI 0021946
Other	RI 0022021
Other	VT 0020702
Other	WA 0002925
Other	WI 0000531
Other	WI 0000914
P (T)	AL 0002666
P (T)	CO 0001121
P (T)	CT 0000850
P (T)	HI 0000191
P (T)	HI 0000281
P (T)	ID 0000825
P (T)	ID 0001163
P (T)	ID 0027154
P (T)	KY 0004049
P (T)	LA 0004847
P (T)	MA 0004171
P (T)	ME 0022861
P (T)	MN 0001422
P (T)	MN 0001643
P (T)	MS 0000931
P (T)	NC 0004952
P (T)	NC 0005274
P (T)	NC 0005479
P (T)	ND 0025232
P (T)	NH 0001261
P (T)	OH 0000621
P (T)	OH 0002615
P (T)	OR 0000515
P (T)	RI 0000043
P (T)	VT 0020401
P (T)	VT 0020702
P (T)	VT 0020966
P (T)	WI 0000531
P (T)	WI 0001341
P (T)	WI 0051764
P (T)	WV 0005495
PAHs	AK 0000841
PAHs	AL 0023272
PAHs	IL 0004073
PAHs	ME 0022314
PAHs	NC 0005274
PAHs	OH 0009997
PCBs (T)	CO 0042064
PCBs (T)	IA 0003395
PCBs (T)	IN 0053384
PCBs (T)	KY 0004049
PCBs (T)	OK 0041629
PCBs (T)	RI 0022021
PCBs (T)	SD 0025437
PCBs (T)	TN 0067199
PCBs (T)	WI 0000531
PCBs (T)	WI 0000914
PCBs (T)	WI 0001341
Parachlorometacresol	CO 0042064
Parathion	CO 0042064
Pb	CA 0004839
Pb	CA 0028797
Pb	CA 0105139
Pb	CT 0001180
Pb	CT 0001601
Pb	GA 0027707
Pb	SC 0000515
Pb	TN 0000353
Pb	TN 0067199
Pb	VT 0020401
Pb	WA 0037265
Pb	WV 0042641
Pb (DS)	CO 0000230
Pb (DS)	CO 0042064
Pb (DS)	ID 0001163
Pb (T)	AL 0003026
Pb (T)	AL 0023272
Pb (T)	AR 0000388
Pb (T)	CO 0000230
Pb (T)	CT 0000850
Pb (T)	CT 0003263
Pb (T)	IA 0003395
Pb (T)	IA 3126107
Pb (T)	IA 7000102
Pb (T)	IL 0000141
Pb (T)	IL 0001643
Pb (T)	IN 0002101
Pb (T)	LA 0004847
Pb (T)	MA 0005291
Pb (T)	ME 0022861
Pb (T)	MS 0000931
Pb (T)	NC 0004952
Pb (T)	NC 0005274
Pb (T)	OH 0000621
Pb (T)	OH 0009997
Pb (T)	RI 0000043
Pb (T)	SC 0001368

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Pb (TR)	AK 0043192
Pb (TR)	AL 0002968
Pb (TR)	AL 0003026
Pb (TR)	AL 0023272
Pb (TR)	ID 0001163
Pb (TR)	IN 0038172
Pb (TR)	KY 0004049
Pb (TR)	OH 0005282
Pb (TR)	SD 0000043
Pd (T)	AL 0002666
Pentachlorobenzene	CO 0042064
Pentachlorobenzene	WI 0000531
Pentachlorobenzene	WI 0000914
Pentachlorobenzene	WI 0001341
Pentachlorophenol	CO 0042064
Pentachlorophenol	WI 0000531
Pentachlorophenol	WY 0032590
Phenanthrene	AL 0003026
Phenanthrene	AL 0023272
Phenanthrene	IA 7000102
Phenanthrene	IL 0000141
Phenanthrene	IL 0001643
Phenanthrene	IN 0002101
Phenanthrene	LA 0007501
Phenanthrene	MA 0005291
Phenanthrene	NC 0004952
Phenanthrene	NC 0005274
Phenanthrene	SC 0003441
Phenanthrene	SC 0003557
Phenanthrene	TX 0000949
Phenol	AL 0002968
Phenol	AL 0003026
Phenol	AL 0023272
Phenol	CO 0042064
Phenol	GA 0027707
Phenol	IA 7000102
Phenol	IL 0000141
Phenol	IL 0001643
Phenol	IN 0002101
Phenol	LA 0007501
Phenol	MA 0005291
Phenol	NC 0004952
Phenol	NC 0005274
Phenol	SC 0003441
Phenol	SC 0003557
Phenol	TX 0000949
Phenols	AK 0000841
Phenols	AL 0002968
Phenols	AR 0036544
Phenols	GA 0001791
Phenols	GA 0003760
Phenols	IA 0003395
Phenols	IL 0004073
Phenols	IN 0002101
Phenols	KS 0000434
Phenols	LA 0007501
Phenols	MN 0001643
Phenols	MS 0047759
Phenols	NC 0005274
Phenols	OH 0009997
Phenols	RI 0000043
Phenols	SC 0001368
Phenols	SC 0003441
Phenols	WV 0004626
Phenols	WY 0000442
Phenols	WY 0032590
Priority pollutants	LA 0007579
Priority pollutants	RI 0000043
Priority pollutants	WV 0004626
Propylene glycol	CO 0026620
Pt	AL 0002666
Pt (T)	AL 0002666
Pyrene	AL 0003026
Pyrene	AL 0023272
Pyrene	IA 7000102
Pyrene	IL 0000141
Pyrene	IL 0001643
Pyrene	IN 0002101
Pyrene	LA 0007501
Pyrene	MA 0005291
Pyrene	NC 0004952
Pyrene	NC 0005274
Pyrene	SC 0003441
Pyrene	SC 0003557
Pyrene	TX 0000949
Radium (226)	LA 0004847
Radium (226)	WY 0001171
Radium (T)	CO 0000230
Radium (T)	CO 0042064
S	AL 0002666
S	IL 0004073
S	SC 0001368
SO3	IL 0000141
SO3	KS 0000434
SO4	AL 0002666
SO4	AL 0003026
SO4	AR 0000388
SO4	AR 0003018
SO4	CO 0000230
SO4	CO 0042064
SO4	IN 0038172
SO4	LA 0004847
SO4	WV 0004626
SO4	WV 0005495
SS	AK 0043192
SS	CA 0004839
SS	CA 0048755
SS	HI 0000191
SS	HI 0020796
SS	IA 7000102
SS	ID 0000825
SS	ID 0027154
SS	ND 0025038
SS	OR 0001635
SS	TN 0004677
SS	VT 0020702
Salinity	HI 0021148
Sb	OR 0000060
Sb (T)	LA 0004847
Sb (T)	RI 0000043

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Sb (TR)	CO 0042064
Se	CA 0004839
Se	ID 0001163
Se	SC 0000515
Se (T)	AR 0000388
Se (T)	CO 0042064
Se (T)	IA 0003395
Se (T)	LA 0004847
Sn	CA 0004839
Sn	CT 0001180
Sodium Nitrite	MA 0003557
Specific conductance	CT 0003263
Specific conductance	SC 0000515
Specific conductance	WY 0001171
Sulfide	AK 0000841
Sulfide	AL 0002968
Sulfide	GA 0001791
Sulfide	GA 0003760
Sulfide	MS 0047759
Sulfide	RI 0000043
Sulfide	WV 0004626
Sulfide	WV 0005495
Sulfide	WY 0000442
Surfactants	CT 0000850
Surfactants	CT 0003263
Surfactants	RI 0000043
Surfactants	SD 0000281
TDS	AL 0002666
TDS	AL 0003026
TDS	AL 0023272
TDS	AR 0003018
TDS	CA 0004839
TDS	CA 0028797
TDS	CA 0105139
TDS	CO 0042064
TDS	CT 0000850
TDS	IL 0000141
TDS	IL 0004073
TDS	IN 0002101
TDS	MN 0002186
TDS	MS 0047759
TDS	ND 0025232
TDS	UT 0000167
TDS	VT 0020401
TDS	WI 0001341
TDS	WY 0032590
TKN	CO 0042064
TKN	ID 0000825
TKN	LA 0007501
TKN	NC 0005479
TKN	ND 0025232
TKN	VT 0020702
TKN	WI 0051764
TKN	WV 0005495
TKN	WV 0042641
TOC	AL 0023272
TOC	AR 0035823
TOC	AR 0036544
TOC	CO 0042064
TOC	HI 0021148
TOC	IL 0001643
TOC	IL 0004073
TOC	IN 0002101
TOC	KS 0000434
TOC	LA 0000418
TOC	NJ 0003310
TOC	OK 0041629
TOC	RI 0000043
TOC	SC 0000515
TOC	SC 0003441
TOC	TX 0000949
TOC	WV 0004626
TOC	WV 0004707
TOC	WV 0005495
TOC	WY 0000442
TON	ID 0000825
TON	KS 0001601
TON	NC 0004952
TON	NC 0005274
TON	ND 0025232
TON-N	HI 0000191
TON-N	HI 0000281
TON-N	HI 0021148
TPH	AK 0000841
TPH	CA 0028797
TPH	WY 0032590
TRC	AK 0029840
TRC	AK 0049786
TRC	AL 0023272
TRC	AR 0000388
TRC	AR 0003018
TRC	CA 0004839
TRC	CO 0000230
TRC	CO 0001121
TRC	CT 0000850
TRC	CT 0001180
TRC	CT 0003263
TRC	IA 0000132
TRC	IA 3126107
TRC	IA 7000102
TRC	ID 0027154
TRC	IN 0002101
TRC	KS 0000817
TRC	KY 0004049
TRC	LA 0007579
TRC	MN 0001422
TRC	MN 0002011
TRC	MN 0038962
TRC	MS 0001783
TRC	MS 0035882
TRC	MS 0047759
TRC	NC 0004952
TRC	NC 0005274
TRC	NC 0005479
TRC	ND 0025232
TRC	OH 0000621
TRC	OH 0005282
TRC	OR 0000060
TRC	OR 0000141
TRC	SC 0000515

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
TRC	SC 0001368
TRC	SC 0003441
TRC	SC 0003557
TRC	TN 0000353
TRC	TN 0067199
TRC	VT 0020401
TRC	WA 0037265
TRC	WI 0000531
TRC	WI 0000914
TRC	WV 0004626
TRC	WV 0004707
TRC	WV 0005495
TROs	IA 0000132
TROs	MA 0003557
TROs	MN 0002186
TROs	NH 0001465
TROs	WY 0003115
TSS	AK 0000841
TSS	AK 0029840
TSS	AK 0043192
TSS	AK 0049786
TSS	AL 0002666
TSS	AL 0002968
TSS	AL 0003026
TSS	AL 0023272
TSS	AR 0000388
TSS	AR 0003018
TSS	AR 0035823
TSS	AR 0036544
TSS	CA 0004839
TSS	CA 0048755
TSS	CO 0000230
TSS	CO 0001121
TSS	CO 0026620
TSS	CO 0042064
TSS	CT 0000850
TSS	CT 0001180
TSS	CT 0001601
TSS	CT 0003263
TSS	GA 0001791
TSS	GA 0003620
TSS	GA 0003760
TSS	GA 0027707
TSS	HI 0000191
TSS	HI 0000281
TSS	HI 0020796
TSS	IA 0000132
TSS	IA 0003395
TSS	IA 3126107
TSS	IA 7000102
TSS	ID 0000825
TSS	ID 0001163
TSS	ID 0001180
TSS	IL 0000141
TSS	IL 0001643
TSS	IL 0003140
TSS	IL 0004073
TSS	IN 0002101
TSS	IN 0036447
TSS	IN 0038172
TSS	KS 0000434
TSS	KS 0000817
TSS	KS 0001601
TSS	KS 0001635
TSS	KY 0004049
TSS	LA 0000418
TSS	LA 0004847
TSS	LA 0007501
TSS	LA 0007579
TSS	MA 0003557
TSS	MA 0004171
TSS	MA 0005011
TSS	MA 0005291
TSS	ME 0002054
TSS	ME 0002321
TSS	ME 0022314
TSS	ME 0022861
TSS	MN 0001422
TSS	MN 0001643
TSS	MN 0002011
TSS	MN 0002186
TSS	MN 0038962
TSS	MS 0000931
TSS	MS 0001783
TSS	MS 0035882
TSS	MS 0047759
TSS	NC 0004952
TSS	NC 0005274
TSS	NC 0005479
TSS	ND 0023809
TSS	ND 0024368
TSS	ND 0025038
TSS	ND 0025232
TSS	NH 0001261
TSS	NH 0001465
TSS	NH 0020788
TSS	NH 0021652
TSS	NJ 0003310
TSS	NJ 0031895
TSS	NJ 0070696
TSS	OH 0005282
TSS	OK 0041629
TSS	OR 0000060
TSS	OR 0000141
TSS	OR 0000515
TSS	RI 0000043
TSS	RI 0021920
TSS	SC 0000515
TSS	SC 0001368
TSS	SC 0003441
TSS	SC 0003557
TSS	SD 0000043
TSS	SD 0000281
TSS	SD 0025437
TSS	TN 0004677
TSS	TN 0031631
TSS	TN 0067199
TSS	TX 0000167
TSS	TX 0000949
TSS	UT 0000167

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
TSS	VT 0000272
TSS	VT 0020401
TSS	VT 0020702
TSS	VT 0020966
TSS	WA 0002925
TSS	WA 0037265
TSS	WI 0000531
TSS	WI 0000914
TSS	WI 0001341
TSS	WI 0051764
TSS	WV 0004626
TSS	WV 0004707
TSS	WV 0005495
TSS	WV 0042641
TSS	WY 0000442
TSS	WY 0003115
TTOs	CT 0001180
TTOs	GA 0027707
TTOs	IA 3126107
TTOs	ME 0022861
TTOs	MS 0000931
TTOs	OH 0000621
TTOs	OH 0009997
TTOs	TN 0000353
TTOs	VT 0000272
Temp.	AK 0029840
Temp.	AK 0043192
Temp.	AL 0002968
Temp.	AL 0023272
Temp.	AR 0000388
Temp.	CA 0004839
Temp.	CA 0028797
Temp.	CA 0105139
Temp.	CO 0001121
Temp.	CT 0000850
Temp.	CT 0001180
Temp.	CT 0001601
Temp.	CT 0003263
Temp.	HI 0000191
Temp.	HI 0000281
Temp.	IA 0000132
Temp.	IA 0003395
Temp.	IA 3126107
Temp.	ID 0001163
Temp.	IL 0003140
Temp.	IL 0004073
Temp.	IN 0002101
Temp.	KS 0000817
Temp.	KS 0001635
Temp.	KY 0004049
Temp.	LA 0000418
Temp.	LA 0004847
Temp.	LA 0007501
Temp.	LA 0007579
Temp.	MA 0003557
Temp.	MA 0005291
Temp.	ME 0002054
Temp.	ME 0002321
Temp.	ME 0022861
Temp.	MN 0001422

Parameter Name	Permit Number
Temp.	MN 0002011
Temp.	MN 0002186
Temp.	MN 0038962
Temp.	MS 0035882
Temp.	NC 0004952
Temp.	NC 0005274
Temp.	NC 0005479
Temp.	ND 0024368
Temp.	ND 0025232
Temp.	NH 0021652
Temp.	NJ 0070696
Temp.	OH 0000621
Temp.	OH 0005282
Temp.	OR 0000141
Temp.	OR 0000515
Temp.	OR 0001635
Temp.	SC 0000515
Temp.	SC 0003557
Temp.	SD 0000043
Temp.	TN 0000353
Temp.	VT 0020401
Temp.	WA 0037265
Temp.	WI 0000531
Temp.	WI 0000914
Temp.	WI 0001341
Temp.	WI 0051764
Temp.	WV 0004707
Temp.	WV 0005495
Temp.	WY 0000442
Tetrachloroethylene	AL 0003026
Tetrachloroethylene	AL 0023272
Tetrachloroethylene	CO 0042064
Tetrachloroethylene	IA 0003395
Tetrachloroethylene	IL 0000141
Tetrachloroethylene	IL 0001643
Tetrachloroethylene	IN 0002101
Tetrachloroethylene	IN 0053384
Tetrachloroethylene	LA 0007501
Tetrachloroethylene	MA 0005291
Tetrachloroethylene	NC 0004952
Tetrachloroethylene	NC 0005274
Tetrachloroethylene	OH 0009997
Tetrachloroethylene	RI 0022021
Tetrachloroethylene	SC 0003441
Tetrachloroethylene	SC 0003557
Tetrachloroethylene	TX 0000949
Tetrahydrofuran	IN 0002101
Thiocarbamates	AL 0003026
Tl (T)	AR 0000388
Tl (T)	LA 0004847
Tl (T)	OH 0002615
Tl (TR)	CO 0042064
Tl (TR)	OH 0005282
Toluene	AL 0003026
Toluene	AL 0023272
Toluene	CA 0105139
Toluene	CO 0042064
Toluene	GA 0027707
Toluene	IA 7000102
Toluene	IL 0000141

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number
Toluene	IL 0001643
Toluene	IL 0004073
Toluene	IN 0002101
Toluene	LA 0007501
Toluene	MA 0005291
Toluene	ME 0022314
Toluene	NC 0004952
Toluene	NC 0005274
Toluene	RI 0021946
Toluene	SC 0003441
Toluene	SC 0003557
Toluene	TX 0000949
Toxaphene	CO 0042064
Toxaphene	WI 0000531
Toxaphene	WI 0000914
Toxaphene	WI 0001341
Trichloroethylene	AL 0003026
Trichloroethylene	AL 0023272
Trichloroethylene	CA 0028797
Trichloroethylene	CO 0026620
Trichloroethylene	CO 0042064
Trichloroethylene	GA 0003760
Trichloroethylene	GA 0027707
Trichloroethylene	IA 7000102
Trichloroethylene	IL 0000141
Trichloroethylene	IL 0001643
Trichloroethylene	IN 0002101
Trichloroethylene	IN 0053384
Trichloroethylene	KY 0004049
Trichloroethylene	LA 0007501
Trichloroethylene	MA 0005291
Trichloroethylene	NC 0004952
Trichloroethylene	NC 0005274
Trichloroethylene	SC 0003441
Trichloroethylene	SC 0003557
Trichloroethylene	TX 0000949
Trihalomethanes (T)	CO 0042064
Turbidity	HI 0020796
Turbidity	HI 0021148
Turbidity	ID 0001163
Turbidity	OH 0005282
Turbidity	OR 0000515
Turbidity	VT 0020401
U (DS)	CO 0000230
U (T)	CO 0042064
U (T)	KY 0004049
U (T)	LA 0004847
Urea	OH 0002615
V (T)	AL 0002666
V (TR)	CO 0042064
VOCs (T)	CA 0028797
Vinyl chloride	AL 0003026
Vinyl chloride	AL 0023272
Vinyl chloride	CA 0028797
Vinyl chloride	CO 0042064
Vinyl chloride	IA 7000102
Vinyl chloride	IL 0000141
Vinyl chloride	IL 0001643
Vinyl chloride	IN 0002101
Vinyl chloride	LA 0007501
Vinyl chloride	MA 0005291
Vinyl chloride	NC 0004952
Vinyl chloride	NC 0005274
Vinyl chloride	RI 0022021
Vinyl chloride	SC 0003441
Vinyl chloride	SC 0003557
Vinyl chloride	TX 0000949
W (T)	AL 0002666
Xylenes	CA 0028797
Xylenes	CA 0105139
Xylenes	ME 0022314
Zn	CA 0028797
Zn	CT 0000850
Zn	CT 0001180
Zn	CT 0001601
Zn	GA 0001791
Zn	GA 0003760
Zn	GA 0027707
Zn	LA 0000418
Zn	LA 0007579
Zn	SC 0000515
Zn	SC 0001368
Zn	SC 0003441
Zn	TN 0000353
Zn	TN 0067199
Zn	VT 0000272
Zn	VT 0020401
Zn (DS)	CO 0000230
Zn (DS)	ID 0001163
Zn (T)	AL 0003026
Zn (T)	AL 0023272
Zn (T)	AR 0000388
Zn (T)	CO 0000230
Zn (T)	CO 0001121
Zn (T)	CT 0003263
Zn (T)	IA 0003395
Zn (T)	IA 3126107
Zn (T)	IA 7000102
Zn (T)	IL 0000141
Zn (T)	IL 0001643
Zn (T)	LA 0004847
Zn (T)	LA 0007501
Zn (T)	MA 0005291
Zn (T)	ME 0022861
Zn (T)	MS 0000931
Zn (T)	NC 0004952
Zn (T)	NC 0005274
Zn (T)	NH 0020788
Zn (T)	OH 0000621
Zn (T)	OH 0009997
Zn (T)	RI 0000043
Zn (T)	SC 0003441
Zn (T)	TX 0000949
Zn (T)	WV 0004626
Zn (T)	WY 0032590
Zn (TR)	AL 0002666
Zn (TR)	AL 0002968
Zn (TR)	AL 0003026
Zn (TR)	AL 0023272
Zn (TR)	CO 0042064

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number	Parameter Name	Permit Number
Zn (TR)	ID 0001163	pH	LA 0007501
Zn (TR)	IN 0002101	pH	LA 0007579
Zn (TR)	IN 0038172	pH	MA 0003557
Zn (TR)	IN 0053384	pH	MA 0004171
Zn (TR)	KY 0004049	pH	MA 0005011
Zn (TR)	NH 0021652	pH	MA 0005291
Zn (TR)	OH 0005282	pH	ME 0002054
Zn (TR)	SD 0000043	pH	ME 0002321
asbestos (fibrous)	SC 0000515	pH	ME 0022314
pH	AK 0000841	pH	ME 0022861
pH	AK 0029840	pH	MN 0001422
pH	AK 0049786	pH	MN 0001643
pH	AL 0002666	pH	MN 0002011
pH	AL 0002968	pH	MN 0002186
pH	AL 0003026	pH	MN 0038962
pH	AL 0023272	pH	MS 0000931
pH	AR 0000388	pH	MS 0001783
pH	AR 0003018	pH	MS 0035882
pH	AR 0035823	pH	MS 0047759
pH	AR 0036544	pH	NC 0004952
pH	CA 0004839	pH	NC 0005274
pH	CA 0028797	pH	NC 0005479
pH	CA 0105139	pH	ND 0023809
pH	CO 0000230	pH	ND 0024368
pH	CO 0001121	pH	ND 0025038
pH	CO 0026620	pH	ND 0025232
pH	CO 0042064	pH	NH 0001261
pH	CT 0000850	pH	NH 0001465
pH	CT 0001180	pH	NH 0020788
pH	CT 0001601	pH	NH 0021652
pH	CT 0003263	pH	NJ 0003310
pH	GA 0001791	pH	NJ 0031895
pH	GA 0003620	pH	NJ 0070696
pH	GA 0003760	pH	OH 0000621
pH	GA 0027707	pH	OH 0002615
pH	HI 0000191	pH	OH 0005282
pH	HI 0000281	pH	OH 0009997
pH	HI 0020796	pH	OK 0041629
pH	HI 0021148	pH	OR 0000060
pH	IA 0000132	pH	OR 0000141
pH	IA 0003395	pH	OR 0000515
pH	IA 3126107	pH	OR 0001635
pH	IA 7000102	pH	RI 0000043
pH	ID 0001163	pH	RI 0021920
pH	ID 0001180	pH	RI 0021946
pH	ID 0027154	pH	RI 0022021
pH	IL 0000141	pH	SC 0000515
pH	IL 0001643	pH	SC 0001368
pH	IL 0003140	pH	SC 0003441
pH	IL 0004073	pH	SC 0003557
pH	IN 0002101	pH	SD 0000043
pH	IN 0036447	pH	SD 0000281
pH	IN 0038172	pH	SD 0025437
pH	IN 0053384	pH	TN 0000353
pH	KS 0000434	pH	TN 0004677
pH	KS 0000817	pH	TN 0067199
pH	KS 0001601	pH	TX 0000167
pH	KS 0001635	pH	TX 0000949
pH	KY 0004049	pH	UT 0000167
pH	LA 0004847	pH	VT 0000272

LIST OF PARAMETERS (cont.)

Parameter Name	Permit Number	Parameter Name	Permit Number
pH	VT 0020401		
pH	VT 0020702		
pH	VT 0020966		
pH	WA 0002925		
pH	WA 0037265		
pH	WI 0000531		
pH	WI 0000914		
pH	WI 0001341		
pH	WI 0051764		
pH	WV 0004626		
pH	WV 0004707		
pH	WV 0005495		
pH	WV 0042641		
pH	WY 0000442		
pH	WY 0001171		
pH	WY 0003115		
pH	WY 0032590		

APPENDIX H

RECEIVING WATER INDEX

LIST OF RECEIVING STREAMS

Receiving Stream	Permit Number
Aeia Stream	HI 0000281
Altamaha River	GA 0003620
Ann Moore Run	WV 0004707
Arkansas River	OK 0041629
Arrowhead Mtn Lake via wells	VT 0020702
Assumpink Creek	NJ 0031895
Back River	SC 0003441
Bakers Slough	TX 0000167
Balus Creek	GA 0001791
Beaver Creek	CO 0042064
Beulah Trench Creek	ND 0025038
Big Bayou Creek	KY 0004049
Black River	VT 0000272
Blackstone River	RI 0022021
Boquist Slough	OR 0000141
Borrow Pit	AR 0035823
Broad River	SC 0001368
Brushy Creek	LA 0007501
Buffalo Creek	NC 0004952
Calabazas Creek	CA 0028797
Canal 81	AR 0035823
Cape Cod Bay	MA 0003557
Captains Bay	AK 0049786
Cedar River	IA 0000132
Chickasaw Creek via Canal	AL 0002666
City storm water system	OR 0000515
Columbia River	OR 0000060
Columbia River	OR 0001635
Connecticut River	MA 0005011
Contoocook River	NH 0021652
Cook Inlet	AK 0000841
Cooper River	SC 0003441
Cottonwood River	KS 0000817
Crow Creek	WY 0000442
Cub River	ID 0001180
Cypress Creek	TN 0000353
Deer River via barge canal	AL 0023272
Deer via canal	AL 0023272
Des Plaines River	IL 0001643
Dick's Creek	OH 0009997
Discharge Channel 2 to Sabine	TX 0000949
Ditch 2 mi. from Pacific Ocean	HI 0021148
Ditch to Bayou des Acadiens	LA 0004847
Ditch to Russell Branch	TN 0067199
Ditch to Tygart Valley River	WV 0042641
Dry Wash/Coyote Wash/White R.	UT 0000167

LIST OF RECEIVING STREAMS (cont.)

Receiving Stream	Permit Number
Duck Creek	WI 0051764
Duncan Creek	TN 0067199
Elizabeth River	NJ 0070696
Fore River on Casco Bay	ME 0022314
Gold Gulch and/or Majors Creek	CA 0048755
Gold Run Cr. to Whitewood Cr.	SD 0000043
Great Miami River	OH 0009997
Gum Swamp Creek	NC 0005479
Hackensack River	NJ 0003310
Halnon Brook	VT 0020966
Housatonic River	CT 0000850
Huron River	OH 0000621
Hylebos Waterway	WA 0037265
Jasper Creek	MS 0000931
Kansas River	KS 0001601
Kapaa Stream	HI 0020796
Kaskaskia River	IL 0000141
Keowee Lake	SC 0000515
Keowee River	SC 0000515
Kettle Brook	MA 0004171
Kings Bay	GA 0027707
Kinley Creek	SC 0003557
Kyger Creek	OH 0005282
Lake Michigan	WI 0000914
Laramie River	WY 0032590
Little Bayou Creek	KY 0004049
Little Maquoketa and Mississip	IA 3126107
Little Popo Agie River	WY 0001171
Little River via wetlands	NH 0020788
Lovekin Drain to Colorado R.	CA 0105139
Lower Urad Reservoir	CO 0000230
McKenzie River	OR 0000515
Merrimack River	NH 0001465
Middle Fork of Deer via canal	AL 0023272
Missippippi River	IA 7000102
Mississippi R.	MN 0001422
Mississippi River	AR 0000388
Mississippi River	AR 0035823
Mississippi River	AR 0036544
Mississippi River	IA 0003395
Mississippi River	IL 0003140
Mississippi River	LA 0000418
Mississippi River	LA 0004847
Mississippi River	MN 0001422
Mississippi River	MS 0047759
Missouri	ND 0025232

LIST OF RECEIVING STREAMS (cont.)

Receiving Stream	Permit Number
Missouri R via White Clay Crk.	KS 0001635
Mobile River	AL 0003026
Naugatuck River	CT 0001180
Naugatuk R. via storm sewer	CT 0001601
Neosho R./Cottonwood R./Fox Cr	KS 0000817
Nickajack Reservoir	TN 0031631
None	WV 0042641
North Branch of Dicks Creek	OH 0009997
North Platte River	WY 0003115
Northeast Utilities Power Cana	MA 0005011
Norton Sound	AK 0043192
Oconee River	GA 0003760
Oconto River	WI 0000531
Ohio River	IN 0002101
Ohio River	OH 0005282
Ohio River	WV 0004626
Opossum Fork Creek	AR 0035823
Ottawa River	OH 0002615
Otter Tail River	MN 0002011
Ouachita River	LA 0007579
Pacific Ocean	HI 0000191
Paradise Creek	ID 0027154
Pepperell Branch	AL 0002968
Point Judith Pond	RI 0021920
Potomac River	BM 4444444
Prudhoe Bay	AK 0029840
Quarry Cut	CT 0003263
Red River	ND 0024368
Redwine Creek	GA 0001791
Ridge and furrow system	WI 0051764
Riley Creek	ID 0000825
S. Fork Catawba River	NC 0005274
S.Fork of S.Branch of PotomacR	WV 0005495
Sabine River	TX 0000949
Saluda River	SC 0003557
San Joaquin River	CA 0004839
Sand Creek	CO 0026620
Sheyenne River	ND 0023809
Snake River	ID 0001163
South Platte River	CO 0001121
St Vrain Creek	CO 0001121
St. of Juan de Fuca/Port Angel	WA 0002925
Sugar River	NH 0001261
Tate Spring Branch	TN 0004677
Taunton R./Muddy Cove Brook	MA 0005291
Taunton R./Muddy Cove Creek	MA 0005291

LIST OF RECEIVING STREAMS (cont.)

Receiving Stream	Permit Number
Travis Ditch	IN 0038172
Tributary to Carter Branch	AL 0003026
Tributary to Cold Creek	AL 0003026
Two tributaries to Stout Creek	IN 0053384
Tyronza River	AR 0036544
Unamed trib. to Box Elder	SD 0000281
Unnamed ditch to Long Lake	AR 0000388
Unnamed ditch to Ouachita Rive	LA 0007579
Unnamed ditch to sinkhole	IN 0053384
Unnamed trib. to Ann Moore Run	WV 0004707
Unnamed trib. to Arkansas R.	OK 0041629
Unnamed trib. to Bachelor Cr.	SD 0025437
Unnamed trib. to Broad River	SC 0001368
Unnamed trib. to Congo Run	WV 0004626
Unnamed trib. to Rolling Fork	AR 0003018
Unnamed trib. to Sugar Creek	IL 0004073
Unnamed trib. to Town Creek	MS 0001783
Unnamed tribs. to Sevenmile Cr	MS 0035882
Unnamed tributary-Box Elder Cr	SD 0000281
Wabash River	IN 0036447
Walnut River	KS 0000434
Wetland Trib. to Crookfall Br.	RI 0021946
Williams Fork River	CO 0000230
Wilson River	OR 0000141
Winooski River	VT 0020401
Wolf River	WI 0001341
Land spreading near Duck Creek	WI 0051764

APPENDIX I

INDUSTRY TYPE (SIC CODE) INDEX

FACILITY TYPES (SIC CODE) AND NAMES

SIC Code	Industry Category	Facility Name	Permit Number
----	Not provided	John Deere Dubuque Works	IA 3126107
0921	Fish Hatcheries	DOI, FWS Hagerman Nat'l Fish	ID 0000825
0921	Fish Hatcheries	Erwin National Fish Hatchery	TN 0004677
0921	Fish Hatcheries	VT Dept. of Fish and Wildlife	VT 0020966
1041	Gold Mining	Homestake Mining Company	SD 0000043
1041	Gold Mining	Western Gold Exploration & Min	AK 0043192
1061	Ferroalloy Ore Mining	Climax Molybdenum Co.Henderson	CO 0000230
1221	Coal Mining	Coteau Properties Co - Beulah	ND 0025038
1311	Crude Oil & Nat Gas Ext	Union Oil Company	WY 0001171
1311	Crude Oil & Nat Gas Ext	ARCO Alaska, Inc.- Prudhoe Bay	AK 0029840
1411	Dimension Stone Extract	Granite Construction Co-Felton	CA 0048755
1442	Construct Sand & Gravel	Gutzmer Construction - Lisbon	ND 0023809
1492	Gypsum Extraction	Ameron HC&D, LTD, Kappa Quarry	HI 0020796
1499	Nonmetallic Minerals Ex	American Gilsonite Company	UT 0000167
2011	Meat Packing Plant	IBP, Inc.	KS 0000817
2013	Sausages & Other Meat	Bryan Foods, Inc.	MS 0001783
2017	Poultry & Egg Process	Tyson Foods, Grannis	AR 0003018
2019	Food Processing	Wampler-Longacre Chicken, Inc.	WV 0005495
2022	Cheese, Natural & Proc	Grande Cheese Company	WI 0051764
2023	Milk, Condensed & Evap	VT Whey Company	VT 0020702
2026	Milk, Fluid	Tillamook County Creamery Assn	OR 0000141
2032	Canned Specialties Food	Del Monte Corp., Franklin, ID	ID 0001180
2061	Sugar, Raw Cane	Hilo Coast Processing Company	HI 0000191
2062	Sugar Refining, Cane	California & Hawaiian Sugar Co	HI 0000281
2063	Sugar, Beet	Minn-Dak Farmers Cooperative	ND 0024368
2085	Distilld & Blend Liquor	Midwest Grain Products, Inc.	KS 0001635
2092	Fish, Fresh or Frozen	Northeast Atlantic Seafood Ltd	RI 0021920
2092	Fish, Fresh or Frozen	Westward Seafoods, Inc., Dutch	AK 0049786
2099	Food Preparations, nec	FIDCO, Inc.	CT 0000850
2221	Weaving Mills, Syntheti	Forstmann & Company	GA 0003760
2254	Knit Underwear Mills	Greenville Manufacturing, Inc.	MS 0047759
2262	Finishing Plant, Synthe	West Point Pepperell Opelika	AL 0002968
2269	Textile Finishing Plant	Bradford Dyeing Assoc., Inc.	RI 0000043
2269	Textile Finishing Plant	Cone Mills Corp., Carlisle	SC 0001368
2269	Textile Finishing Plant	Worcester Spinning & Finishing	MA 0004171
2271	Carpets, Rugs, Woven	Fieldcrest Cannon, Inc.	NC 0005479
2297	Fabrics, Nonwoven	Kimberly-Clark, Corinth Mills	MS 0035882
4931	Electric & Other Servic	DOE-Paducah Gaseous Diffusion	KY 0004049
2491	Wood Preserving	Union Pacific RR, Laramie Tie	WY 0032590
2611	Pulp Mills, Paper	International Paper Company	TX 0000167
2611	Pulp Mills, Paper	Potlack Corporation	AR 0035823
2611	Pulp Mills, Paper	Potlatch Corp, Lewiston Fac.	ID 0001163
2611	Pulp Mills, Paper	Weyerhaeuser Company	OR 0000515
2611	Pulp Mills, Paper	ITT Rayonier, Inc	GA 0003620
2611	Pulp Mills, Paper	Scott Paper Co at Oconto Falls	WI 0000531
2611	Pulp Mills, Paper	Daishowa America Co. - Pott An	WA 0002925
2621	Paper Mills, Exc Bldng	Coy Paper Company, Inc.	NH 0001261
2621	Paper Mills, Exc Bldng	Potlatch Corp.	MN 0001422
2631	Paperboard Mills	Muskogee Linerboard Mill	OK 0041629
2631	Paperboard Mills	Inland Container Corporation	IN 0036447
2647	Sanitary Paper Products	Shawano Paper Mills	WI 0001341
2679	Paper Products	Strathmore Paper Company	MA 0005011
2812	Alkalies, Chlorine Prod	Occidental Chemical Corp.	WA 0037265
2819	Industrial Inorg Chem	UOP - Molecular Sieve Plant	AL 0002666
2819	Industrial Inorg Chem	Degussa Corporation, AL Group	AL 0023272

FACILITY TYPES (SIC CODE) AND NAMES

SIC Code	Industry Category	Facility Name	Permit Number
2821	Plastics Material	Neste Resins Corporation	LA 0007501
2821	Plastics Material	Miles Incorporated	WV 0005169
2821	Plastics Material	Quantum-USI Division, Tuscola	IL 0000141
2821	Plastics Material	Amoco Chemical Co. - Joliet	IL 0001643
2821	Plastics Material	Hoechst Celanese Corp.	NC 0004952
2823	Cellulosic Manmade Fib	Viskase Corporation	AR 0036544
2823	Cellulosic Manmade Fib	Courtaulds Fibers, Inc	AL 0003026
2824	Organic Fibers	Allied Fibers, Columbia Plant	SC 0003557
2833	Medicinal, Bot Products	Johnson & Johnson Advanced Mat	GA 0001791
2851	Paint & Allied Products	The Glidden Company	OH 0000621
2865	Cyclic Crudes & Interme	Miles Inc., Bushy Park Plant	SC 0003441
2865	Cyclic Crudes & Interme	Crompton and Knowles Corp.	NC 0005274
2869	Industrial Org Chem	Texas Eastman Company	TX 0000949
2869	Industrial Org Chem	General Electric - Mt. Vernon	IN 0002101
2869	Industrial Org Chem	Monsanto Company - Muscatine	IA 7000102
2869	Industrial Org Chem	ICI Americas Inc.	MA 0005291
2873	Fertilizers, Nitrogen	Chevron Chemical Company	OR 0001635
2873	Fertilizers, Nitrogen	CF Industries, Inc.	LA 0000418
2873	Fertilizers, Nitrogen	BP Chemicals of America Inc.	OH 0002615
2873	Fertilizers, Nitrogen	Farmland Industries, Inc.	KS 0001601
2874	Fertilizers, Phosphatic	Agrico Chemical Company	LA 0004847
2899	Chemical Preparations	3M-Cordova	IL 0003140
2911	Petroleum Refining	Frontier Refining, Inc.	WY 0000442
2911	Petroleum Refining	Quaker State Oil Refining Corp	WV 0004626
2911	Petroleum Refining	Marathon Oil - Robinson	IL 0004073
2911	Petroleum Refining	Tesoro Alaska Petroleum Co.	AK 0000841
2911	Petroleum Refining	Total Petroleum - Ark. Refiner	KS 0000434
3086	Plastic Products	Dart Industries, Inc	RI 0022021
3211	Glass, Flat	Libbey Owens Ford, Lathrop 10	CA 0004839
3334	Aluminum, Primary	Reynolds Metals Co., Troutdale	OR 0000060
3341	Metals, Nonferrous, Sec	Concast Metal Products Company	WV 0042641
3351	Copper Rolling, Drawing	Drawn Metal Tube Company	CT 0001601
3353	Alum Sheet Plate Foil	ALCOA North Plant	TN 0067199
3355	Alum Rolling & Drawing	Aluminum Company of America	IA 0003395
3370	Foundries	Armco Steel Company, L.P.	OH 0009997
3433	Heating Equip Exc Elec	Process Engineering, Inc.	NH 0020788
3444	Steel Metal Work	Atlantic Metal Products, Inc.	NJ 0070696
3471	Metal Plating & Polish	Summit Corp of America	CT 0001180
3471	Metal Plating & Polish	Springfield Electroplating	VT 0000272
3479	Metal Coating & Servic	Roll Coater, Inc.	IN 0038172
3479	Metal Coating & Servic	Piper Impact, Inc.	MS 0000931
3613	Switchgear & Switchboa	GE, Selmer	TN 0000353
3624	Carbon & Graphite Prod	U CAR Carbon Co., Inc.	WV 0004707
3674	Semiconductors	Advanced Micro Devices, Inc.	CA 0028797
3679	Electronic Components	ABB Power T&D Co., Inc.	IN 0053384
3996	Floor Cover, Hard Surf	American Biltrite, Inc.	NJ 0031895
4581	Air Transportation	Denver Stapleton Intl. Airport	CO 0026620
4911	Electric Services	Public Service of New Hamphire	NH 0001465
4911	Electric Services	TVA, Raccoon Mt Pumped-Storage	TN 0031631
4911	Electric Services	Ohio Valley Electric Corp.	OH 0005282
4931	Electric & Other Servic	Northeast Nuclear Energy Co.	CT 0003263
4931	Electric & Other Servic	Arkansas P&L, R.E. Ritchie Pl.	AR 0000388
4931	Electric & Other Servic	Bio-Energy Corporation	NH 0021652
4931	Electric & Other Servic	Louisiana P&L, Sterlington	LA 0007579
4931	Electric & Other Servic	Pacficorp dba Pacific P&L, Dav	WY 0003115
4931	Electric & Other Servic	T & R Electric Supply Co.,Inc.	SD 0025437
4931	Electric & Other Servic	Fort St Vrain Electric Gen Sta	CO 0001121

FACILITY TYPES (SIC CODE) AND NAMES

SIC Code	Industry Category	Facility Name	Permit Number
4931	Electric & Other Servic	Duke Power, Oconee Station	SC 0000515
4931	Electric & Other Servic	Wisc Elec Power Co - Oak Creek	WI 0000914
4931	Electric & Other Servic	IELP 6th Street Station	IA 0000132
4931	Electric & Other Servic	Basin Electric Power Coop-Bism	ND 0025232
4931	Electric & Other Servic	Boston Edison Company	MA 0003557
4931	Electric & Other Servic	Otter Tail Power Co.-Hoot Lake	MN 0002011
4931	Electric & Other Servic	J.C. McNeil Generating Station	VT 0020401
4941	Water Supply	Dept. of Land & Nat. Resources	HI 0021148
4941	Water Supply	Hackensack Water Company	NJ 0003310
4971	Irrigation Systems	Palo Verde Irrigation District	CA 0105139
5171	Petroleum Bulk Stations	The Cumberland Farms, Inc.	ME 0022314
5983	Fuel Oil Dealers	Sun Refining and Marketing Co.	RI 0021946
8221	Colleges & Universities	Univ.of Idaho Irrig. Lagoons	ID 0027154
9711	National Security	U.S. Airforce, Ellsworth Base	SD 0000281
9731	National Security	US Naval Submarine Base	GA 0027707
9999		Highway 36 Land Development Co	CO 0042064

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