

DEPARTMENT OF THE ARMY, CORPS OF ENGINEERS

INSTRUCTIONS FOR PART B
(Pages 1B through 7B of ENG FORM 4345-1)

GENERAL INSTRUCTIONS

You must complete this Part if your activity is among those listed below under "Critical Industrial Groups." If so, look up your activity by its corresponding SIC Code in the Appendix, which describes the type of activities included in each SIC category, and specifies which parameters must be reported by each activity.

In Part B, you must supply data on a given parameter if you fall into any or all of the following categories:

1. That parameter is specifically required of your activity, as shown in the Appendix and explained above.
2. You indicated it to be "Present" in Item 23, "Discharge Contents" in Section II and the presence results (in whole or in part) from your industrial/commercial activity. If the presence is solely the result of inclusion in the intake water, indicate this by placing a "W" in column (1). You need not provide further information on this parameter at this time, but may be required to do so later by the District Engineer.
3. It is a parameter specifically required of you by the District Engineer.

If a discharge is solely the result of steam generation and/or cooling, the supplementary parameters that shall be reported are those required under SIC 493, Combination Companies and Systems. This code, SIC 493, should be entered in Item 12, "Standard Industrial Classification Number," in Section II.

Discharge Serial No.

In Items B-1 through B-3, Parameter Descriptions, enter the serial number for the discharge covered by this description in the box marked "Discharge Serial No.", found at the top of each page. This serial number should be the same as that entered for this particular discharge in Item 6 of Section II and in Part A of the application form.

Columns (1) and (2)

Many applicants, before using their intake water, find it necessary to treat it in some fashion. Where such treatment occurs, columns (1) and (2) in Items B-1 through B-3 ("Untreated Intake Water" and "Treated Intake Water") must both be filled in. Specify in column (1) the daily average value of the parameter in question in the water entering the plant before any preliminary water treatment and in column (2) the daily average value of the same parameter in the process water after any preliminary water treat-

ment. If there is no preliminary water treatment, respond only to column (1). In all other columns, fill in the value called for, referring to the "Item-by-Item Instructions."

If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter an "A" (meaning "absent") in the appropriate space.

Part B must be submitted to the District Engineer by October 1, 1971, for discharges existing by that date; it must be submitted as part of the application form for a new discharge.

CRITICAL INDUSTRIAL GROUPS

SIC 098	FISH HATCHERIES, FARMS, AND PRESERVES	SIC 285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC 10-14	DIVISION B - MINING	SIC 2871	FERTILIZERS
SIC 201	MEAT PRODUCTS	SIC 2879	AGRICULTURAL PESTICIDES, AND OTHER AGRICULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
SIC 202	DAIRY PRODUCTS	SIC 2891	ADHESIVES AND GELATIN
SIC 203	CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)	SIC 2892	EXPLOSIVES
SIC 2031 2036	CANNED AND CURED FISH AND SEAFOODS, FRESH OR FROZEN PACKAGED FISH AND SEAFOODS	SIC 29	PETROLEUM REFINING AND RELATED INDUSTRIES
SIC 204	GRAIN MILL PRODUCTS	SIC 3011, 3069	TIRES AND INNER TUBES; FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC 206	SUGAR	SIC 3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC 207	CONFECTIONARY AND RELATED PRODUCTS	SIC 311	LEATHER TANNING AND FINISHING
SIC 208	BEVERAGES	SIC 32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC 209	MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS	SIC 331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
SIC 22	TEXTILE MILL PRODUCTS	SIC 332	IRON AND STEEL FOUNDRIES
SIC 23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	SIC 333, 334	PRIMARY SMELTING AND REFINING OF NON-FERROUS METALS; SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
SIC 242	SAWMILLS AND PLANING MILLS	SIC 336	NONFERROUS FOUNDRIES
SIC 2432	VENEER AND PLYWOOD	SIC 347	COATING, ENGRAVING, AND ALLIED SERVICES
SIC 2491	WOOD PRESERVING	SIC 35	MACHINERY, EXCEPT ELECTRICAL
SIC 26	PAPER AND ALLIED PRODUCTS	SIC 36	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
SIC 281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)	SIC 37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
SIC 2818	INDUSTRIAL ORGANIC CHEMICALS	SIC 3731	SHIP BUILDING AND REPAIRING
SIC 282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MAN-MADE FIBERS, EXCEPT GLASS	SIC 491	ELECTRIC COMPANIES AND SYSTEMS
SIC 283	DRUGS	SIC 493	COMBINATION COMPANIES AND SYSTEMS
SIC 284	SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS		

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ITEM BY ITEM INSTRUCTIONS

Item B-1 - Physical and Biological Parameters. See Table B-1.

For each of the parameters listed on the left side which you are required to report for any or all of the three reasons listed in the General Instructions for Part B, enter in the appropriate box the value or code word answer called for. Each parameter has been assigned units as specified in Table B-1. If you report in the specified units, and are using the test method specified in Table B-1, make no changes. If you must use different units, or test method, enter an asterisk (*) after the code number in the lower left-hand corner of the "Parameter" box and describe in "Remarks" the units or method used.

Columns (1) through (5) - Report the required values in units specified in the Table.

Columns (1) and (2) - See General Instructions. Enter average daily value.

Column (3) - Enter average daily value when discharge is occurring.

Column (4) - Enter minimum value expected in operating year.

Column (5) - Enter maximum value expected in operating year.

Column (6) - Enter frequency of discharge sampling that was used to determine the reported value as follows:

D if sampling was daily.

W if sampling was weekly.

M if sampling was monthly.

O if sampling was of another frequency - indicate in "Remarks" what that frequency was.

Column (7) - This column is for reporting the use of continuous monitoring of the discharge. Enter one of the following for each parameter:

R if the parameter is continuously monitored and its value is recorded.

M if the parameter is continuously monitored but its value is not recorded.

A if continuous monitoring is not employed.

If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter an "A" (meaning "absent") in the appropriate space.

Item B-2 - Chemical Parameters. See Table B-2.

Report all parameters required of you for any or all of the three reasons listed in General Instructions for Part B. Table B-2 contains all parameters with their units, accuracy levels, test descriptions and references. The parameter values can be determined either by use of one of the standard analytical methods as described in Table B-2, or by other accepted techniques. If the units or test used are not those shown in Table B-2, the actual units or test procedure used should be described in "Remarks" or on a separate sheet. Also, an asterisk (*) should be entered after the code (number) in the lower left-hand corner of the Parameter box. If it is certain that one or more of the required parameters is not present in the treated or untreated intake water and/or the discharge, enter an "A" (meaning "absent") in the appropriate space.

Columns (1) and (2) - See "General Instructions"; enter average daily concentration in units specified in Table B-2.

Column (3) - Maximum Concentration - Enter maximum concentration actually observed or estimated in the discharge in units specified in Table B-2.

Column (4) - Maximum pounds/day/process unit - Enter maximum pounds per day per process unit in discharge. Process unit is defined as the unit used in describing either the principal product or principal raw material in Items 13 or 15 of Section II. Indicate in "Remarks" which one was used.

Column (5) - Maximum pounds/day - Enter the maximum amount (in pounds) in discharge in any day when plant is in operation.

Column (6) - Daily Average Concentration - Enter average daily (when plant is in operation) discharge value in units specified in Table B-2.

Column (7) - Average pounds/day - Enter the daily average amount (in pounds) in discharge when plant is operating.

Columns (8), (9), (10), and (11) - describe discharge sampling methods and frequencies.

Column (8) - Sample Type - Enter one of the following:

A for average grab sample.

C for composite sample.

X for continuous sample.

Column (9) - Enter frequency of sampling that was used to determine the reported value as follows:

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TABLES B-1, B-2, B-3

The following tables are numbered to correspond with the items on the application form and are to be used as a guide in reporting the data concerning each parameter. The parameters in each table are listed in the same order as in the corresponding item on the form (Items B-1 through B-3) in the first column of each table, "PARAMETER & UNITS". This column also indicates the preferred units for reporting data for a given parameter in Columns (1) through (5) of Items B-1 and B-3 and Columns (1), (2), (3) and (6) of Item B-2 of the form. The second table column, "METHOD", lists the preferred analytical method (if any) for determining the required parameter values. This column is headed "REMARKS" in Table B-3 (Radioactive Parameters). The next three columns, under the general heading "REFERENCES", give the number of a page in one of three standard reference works which contains a detailed description of the analytical technique recommended in the "METHOD" column. Only one of the standard reference works is listed in Table B-3. These standard references are:

1. Standard Methods for the Examination of Water and Wastewaters, 13th Edition, 1971, American Public Health Association, New York, New York 10019.
2. A.S.T.M. Standards, Part 23, Water; Atmospheric Analysis, 1970, American Society for Testing and Materials, Philadelphia, Pa. 19103
3. W.Q.O. Methods for Chemical Analysis of Water and Wastes, April 1971, Environmental Protection Agency, Water Quality Office, Analytical Quality Control Laboratory, 1014 Broadway, Cincinnati, Ohio 45202

Copies of the publications are available from the above sources, or for review in the District Engineers Offices and the Regional Offices of the Environmental Protection Agency.

The last table column, "SIGNIFICANCE IN REPORTING DATA", indicates the position, before or after the decimal point, of the last significant figure (digit) to be reported in Columns (1) through (5) of Items B-1 and B-3 and Columns (1), (2), (3) and (6) of Item B-2.

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TABLE B-1 PHYSICAL AND BIOLOGICAL PARAMETERS					
PARAMETER & UNITS	METHOD	REFERENCES			SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13th ED. 1971	A.S.T.M. STANDARDS Pt. 23 1970	W.Q.O. METHODS 1971	
COLOR ✓ (Pt-Co units)	PLATINUM-COBALT VISUAL	p. 160	—	p. 38	X.
SPECIFIC CONDUCTANCE (μ mhos at 25° C.)	WHEATSTONE BRIDGE	p. 323	p. 179	p. 284	X.
TURBIDITY ✓ (Jackson units)	TURBIDIMETER	p. 577	—	p. 308	X.
FECAL STREPTOCOCCI BACTERIA number/100 ml	SPECIFY METHOD USED IN "REMARKS"	p. 688	—	—	X.
COLIFORM BACTERIA FECAL number/100 ml	SPECIFY METHOD USED IN "REMARKS"	p. 684	—	—	X.
COLIFORM BACTERIA TOTAL number/100 ml	SPECIFY METHOD USED IN "REMARKS"	p. 679	—	—	X.

TABLE B-2 CHEMICAL PARAMETERS					
PARAMETER & UNITS	METHOD	REFERENCES			SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13th ED. 1971	A.S.T.M. STANDARDS Pt. 23 1970	W.Q.O. METHODS 1971	
ACIDITY ✓ mg CaCO ₃ /liter	TITRATION OR ELECTROMETRIC	p. 370	p. 155	p. 5	X.
TOTAL ORGANIC CARBON (T.O.C.) mg/liter	COMBUSTION-INFRARED METHOD	p. 257	p. 815	p. 221	.X
HARDNESS-TOTAL mg/liter	EDTA TITRATION AUTOMATED COLORIMETRIC, OR ATOMIC ABSORPTION	p. 179	p. 187	p. 78	X.
NITRITE (as N) mg/liter	DIAZOTIZATION OR AUTOMATED COLORIMETRIC- DIAZOTIZATION	p. 468	p. 258	p. 195	.X
ORGANIC NITROGEN mg/liter	KJELDAHL NITROGEN MINUS AMMONIA (N)	p. 468	—	p. 198	.X

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TABLE B-2 (Continued)

PARAMETER & UNITS	METHOD	REFERENCES			SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13th ED. 1971	A.S.T.M. STANDARDS Pt. 23 1970	W.Q.O. METHODS 1971	
PHOSPHORUS-ORTHO (as P) mg/liter	DIRECT SINGLE REAGENT CHLORIDE; AUTOMATED COLORIMETRIC-SINGLE REAGENT OR STANNOUS CHLORIDE	p. 530	p. 51	p. 235	.X
SULFATE (as S) mg/liter	TURBIDIMETRIC OR AUTOMATED COLORIMETRIC-BARIUM CHLORANILATE	p. 334	p. 54	p. 286	.X
SULFIDE (as S) mg/liter	TITRIMETRIC-IODIDE, METHYLENE BLUE COLOR MATCHING OR METHYLENE BLUE COLORIMETRIC	p. 551	—	p. 294	.X
SULFITE (as SO ₃) mg/liter	IODIDE-IODATE TITRATION	p. 337	p. 291	—	.X
BROMIDE mg/liter	COLORIMETRIC	p. 75	p. 240	—	.XX
CHLORIDE mg/liter	MERCURIC NITRATE OR AUTOMATED COLORIMETRIC- FERRICYANIDE	p. 97	p. 24	p. 29	X.
CYANIDE mg/liter	SILVER NITRATE OR PYRIDINE PYRAZALONE	p. 404	p. 644	p. 41	.XX
FLUORIDE mg/liter	SPADNS WITH DISTILLATION OR AUTOMATED COLORIMETRIC COMPLEXONE PROBE	p. 171	p. 213	p. 64	.XX
ALUMINUM-TOTAL μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 57	—	p. 98	X.
ANTIMONY-TOTAL μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER (See Note at End of Table)	—	—	p. 83	X.
ARSENIC-TOTAL μg/liter	SILVER DIETHYLDITHIO- CARBAMATE OR ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 62	—	p. 13 p. 99	X.

TABLE B-2 (Continued)

PARAMETER & UNITS	METHOD	REFERENCES			SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13th ED. 1971	A.S.T.M. STANDARDS Pt. 23 1970	W.Q.O. METHODS 1971	
BARIUM-TOTAL $\mu\text{g/liter}$	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 66	—	—	X.
BERYLLIUM-TOTAL $\mu\text{g/liter}$	ALUMINON OR ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 67	—	—	X.
BORON-TOTAL $\mu\text{g/liter}$	CURCUMIN, CARMINE OR POTENTIOMETRIC METHOD	p. 69	—	—	X.
CADMIUM-TOTAL ✓ $\mu\text{g/liter}$	DITHIZONE METHOD OR ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 422	—	p. 101	X.
CALCIUM-TOTAL ✓ mg/liter	EDTA or ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 84	—	p. 102	X.
CHROMIUM-TOTAL ✓ $\mu\text{g/liter}$	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 426	—	p. 104	X.
COBALT-TOTAL ✓ $\mu\text{g/liter}$	ATOMIC ABSORPTION SPECTROPHOTOMETER (See Note at End of Table)	—	—	p. 83	X.
COPPER-TOTAL ✓ $\mu\text{g/liter}$	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 430	—	p. 106	X.
IRON-TOTAL ✓ $\mu\text{g/liter}$	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 433	—	p. 108	X.
LEAD-TOTAL $\mu\text{g/liter}$	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 436	—	p. 110	X.
MAGNESIUM-TOTAL ✓ mg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 416	—	p. 112	X.

TABLE B-2 (Continued)					
PARAMETER & UNITS	METHOD	REFERENCES			SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13th ED. 1971	A.S.T.M. STANDARDS PL. 23 1970	W.Q.O. METHODS 1971	
MANGANESE-TOTAL μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER	—	—	p. 114	X.
MERCURY-TOTAL μg/liter	FLAMELESS ATOMIC ABSORPTION PROCEDURE	—	—	p. 121	X.
MOLYBDENUM-TOTAL μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER (See Note at End of Table)	—	—	p. 83	X.
NICKEL-TOTAL μg/liter	POLAROGRAPHY	p. 443	—	—	X.
POTASSIUM-TOTAL mg/liter	COLORIMETRIC OR FLAME PHOTOMETRIC METHOD	p. 285 p. 283	—	—	.XX
SELENIUM-TOTAL μg/liter	DIAMINO BENZIDINE	p. 296	—	p. 271	X.
SILVER-TOTAL μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 309	—	p. 117	.X
SODIUM-TOTAL mg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER	p. 317	—	p. 118	X.
THALLIUM-TOTAL μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER (See Note at End of Table)	—	—	p. 83	X.
TIN-TOTAL μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER (See Note at End of Table)	—	—	p. 83	X.
TITANIUM-TOTAL μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER (See Note at End of Table)	—	—	p. 83	X.

TABLE B-2 (C ntinued)

PARAMETER & UNITS	METHOD	REFERENCES			SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13th ED. 1971	A.S.T.M. STANDARDS Pl. 23 1970	W.Q.O. METHODS 1971	
ZINC-TOTAL ✓ μg/liter	ATOMIC ABSORPTION SPECTROPHOTOMETER; COLORIMETRIC METHOD OR POLAROGRAPHIC METHOD	p. 211 p. 444 p. 448	—	p. 120	X.
OIL AND GREASE ✓ mg/liter	HEXANE SOXHLET EXTRACTION	p. 409	—	p. 217	.X
PHENOLS μg/liter	COLORIMETRIC	p. 502	—	p. 232	X.
SURFACTANTS mg/liter	METHYL BLUE ACTIVE SUBSTANCE	p. 559	p. 721	p. 131	.XX
ALGICIDES ⊗ mg/liter	SPECIFY METHOD USED IN "REMARKS"	p. 100	—	—	.XXX
CHLORINATED ⊗ HYDROCARBONS (EXCEPT PESTICIDES) mg/liter	SPECIFY METHOD USED IN "REMARKS"	p. 100	—	—	.XXX
PESTICIDES mg/liter	SPECIFY METHOD USED IN "REMARKS"	p. 100	—	—	.XXX

NOTE

General instructions for metals analyses by atomic absorption are found on page 83 of *W.Q.O. Methods for Chemical Analysis of Water and Wastes, April 1971*. Interim analytical procedures for metals not listed there can be obtained from the Analytical Quality Control Laboratory, 1014 Broadway, Cincinnati, Ohio 45202, from the District Offices of the U.S. Army Corps of Engineers or from the Regional offices of the Environmental Protection Agency.

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TABLE B-3 RADIOACTIVE PARAMETERS

TYPE OF RADIATION	REMARKS	REFERENCE	SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13th ED. 1971	
ALPHA-TOTAL picocurie/liter	SEE STANDARD METHODS	p. 598	X.
ALPHA COUNTING ERROR picocurie/liter	SEE STANDARD METHODS	p. 598	X.
BETA-TOTAL picocurie/liter	SEE STANDARD METHODS	p. 598	X.
BETA COUNTING ERROR picocurie/liter	SEE STANDARD METHODS	p. 598	X.
GAMMA-TOTAL picocurie/liter	SEE STANDARD METHODS	p. 598	X.
GAMMA COUNTING ERROR picocurie/liter	SEE STANDARD METHODS	p. 598	X.
TRITIUM-TOTAL picocurie/liter	REPORTED BY NUCLEAR POWER PLANTS (SIC 491) AND NUCLEAR FUEL REPROCESSING PLANTS (SIC 2819) AND ANY OTHER FACILITIES INVOLVING FISSION REACTIONS.	p. 629	.X
TRITIUM COUNTING ERROR picocurie/liter	REPORTED BY NUCLEAR POWER PLANTS (SIC 491) AND NUCLEAR FUEL REPROCESSING PLANTS (SIC 2819) AND ANY OTHER FACILITIES INVOLVING FISSION REACTIONS	p. 629	.X

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APPENDIX

This Appendix lists, in order of Standard Industrial Classification Code number, the "Critical Industries," and prescribes the supplementary parameters which must be reported by these industries on Part B of the application form.

In some 2-digit categories, i.e. SIC Codes 09, 20, 24, 33, 34, and 49, only a general description of the activities included in the category is given; no parameters are prescribed. The general descriptions are followed by further, more specific categories, designated by the same two digits as the preceding broad one, plus an additional one or two digits. For example, SIC 24 is "Lumber and Wood Products, Except Furniture." No parameters are prescribed under this heading, therefore an applicant who believes he falls in this general category must find the specific subdivision of "Lumber and Wood Products" in which he belongs, such as SIC 242 "Sawmills and Planing Mills," or SIC 2432 "Veneer and Plywood," in order to determine which parameters he must report. If he does not find a specific 3- or 4-digit listing of his industry, and the 2-digit description does not prescribe parameters, his activity is excluded from the "Critical Industries" group, and he need not fill out Part B. Thus, an applicant whose activity would be classified as 2411, "Logging Camps," which is not listed in this Appendix, need not fill out Part B.

In the remaining broad, 2-digit categories, SIC Codes 22, 23, 26, 29, 32, 35, 36, and 37, not only are the types of activities included in this group indicated, but parameters are given for the group as a whole, and anyone falling into the broad category should report the parameters indicated.

The remainder of the Appendix is comprised of industrial classifications designated by 3- and 4-digit codes which are not preceded by a 2-digit broad category. These descriptions indicate the types of activities included in the classification and list the parameters which must be reported by the included activities.

If a discharge is solely the result of steam generation and/or cooling, the supplementary parameters that shall be reported are those required under SIC 493, Combination Companies and Systems.

If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter an "A" (meaning "absent") in the appropriate space.

SIC 09 FISHERIES

This major group includes establishments primarily engaged in commercial fishing; the operation of oyster farms and the tonging and dredging of oysters; the gathering of sponges, seaweed, etc.; and the operation of fish hatcheries or fishing preserves.

SIC 098 FISH HATCHERIES, FARMS, AND PRESERVES

Fish farms, hatcheries, piers, preserves, frog farms, goldfish, minnow, oyster, trout and others.

Color
Nitrite (as N)

Total Coliform
SEE NOTE BELOW

SIC 10-14 DIVISION B - MINING

This division includes all establishments primarily engaged in mining. Mining is here used in the broad sense to include the extraction of minerals occurring naturally: solids, such as coal and ores; liquids, such as crude petroleum; and gasses, such as natural gas. The term "mining" is also used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparation needed to render the material marketable. Exploration and development of mineral properties are included. Services performed on a contract, fee, or other basis in the development or operation of mineral properties are classified separately but within this division.

Mining operations are classified, by industry, on the basis of the principal mineral produced, or, if there is no production, on the basis of the principal mineral for which development work is in process. The mining of culm banks, ore dumps, and tailing piles is classified as mining according to the principal mineral product derived.

Excluded from this division are the purification and distribution of water (Industry 4941), bottling and distributing of natural spring

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

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and mineral waters (Industry 5049), and the crushing, grinding, or otherwise treating of certain earths, rocks, and minerals not in conjunction with mining activities (Industry 3295)

Hardness	Copper
Specific Conductance	Iron
Bromide	Lead
Chloride	Manganese
Fluoride	Mercury
Nitrite (as N)	Nickel
Sulfate	Zinc
Sulfide	Oil and Grease
Aluminum	Radioactivity
Cadmium	SEE NOTE BELOW
Chromium	

SIC 20 FOOD AND KINDRED PRODUCTS

This major group includes establishments manufacturing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls.

SIC 201 MEAT PRODUCTS

Establishments primarily engaged in the slaughtering for their own account or on a contract basis for the trade of cattle, hogs, sheep, lambs, calves, horses and other animals.

Color	Total Organic Carbon (T.O.C.)
Chloride	Total Coliform
Nitrite (as N)	Fecal Streptococci
Oil and Grease	Fecal Coliform
	SEE NOTE BELOW

SIC 202 DAIRY PRODUCTS

Establishments primarily engaged in the manufacture of dairy products. (Independently operated milk receiving stations for the assembly and reshipment of bulk milk to processing plants are included in SIC 5043).

Color	Nitrite (as N)
Total Coliform	SEE NOTE BELOW
Fecal Coliform	

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

SIC 203 CANNED AND PRESERVED FRUITS, VEGETABLES, EXCEPT SEAFOODS
(SIC 2031 and 2036)

Also includes manufacture of catsup and similar tomato sauces, preserves, jams and jellies.

Specific Conductance	Pesticides
Chloride	Total Organic Carbon (T.O.C.)
Nitrite (as N)	Total Coliform
Oil & Grease	Fecal Coliform
	SEE NOTE BELOW

SIC 2031 CANNED AND CURED FISH AND SEAFOODS

Establishments primarily engaged in cooking and canning fish, shrimps, oysters, clams, crabs, and other sea foods; and those engaged in smoking, salting, drying or otherwise curing fish for the trade. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, or freezing and packaging fresh fish, are classified in Industry 2036. (See parameter list for SIC 2036, below).

SIC 2036 FRESH AND FROZEN PACKAGED FISH AND SEAFOODS

Establishments primarily engaged in preparing fresh and raw or cooked frozen packaged fish and other sea food. This industry also includes establishments primarily engaged in the shucking and packing of fresh oysters in non-sealed containers.

Specific Conductance	Nitrite (as N)
Oil and Grease	Total Coliform
Chloride	Fecal Coliform
	SEE NOTE BELOW

SIC 204 GRAIN MILL PRODUCTS

Establishments engaged in milling flour, or meal from grain to include animal and fowl feeds, cereal preparations, rice milling, blended and prepared flour, and wet corn milling.

Color	Oil & Grease
Specific Conductance	Total Organic Carbon (T.O.C.)
Turbidity	Total Coliform
Chloride	Fecal Coliform
Nitrite (as N)	SEE NOTE BELOW

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

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SIC 206 SUGAR

Manufacturing raw sugar syrup, or finished sugar products from both sugar cane and beet sugar.

Color	Total Organic Carbon (T.O.C.)
Total Coliform	SEE NOTE BELOW
Fecal Coliform	

SIC 207 CONFECTIONARY AND RELATED PRODUCTS

Manufacturers of candy including chocolate and cocoa products, confections, chewing gum and related products.

Color	Total Coliform
Specific Conductance	Fecal Coliform
Chloride	Total Organic Carbon (T.O.C.)
	SEE NOTE BELOW

SIC 208 BEVERAGES

Manufacturers of all kinds of malt liquors except bottles of purchased malt liquors (SIC 5095); malt by-products; wine, brandy, and brandy spirits except non-manufacturing bottlers of these products (SIC 5095); distilled, rectified, and blended liquors except industrial alcohol manufacturers (SIC 2818) and non-manufacturing bottlers (SIC 5095); canned soft drinks and carbonated waters except fruit and vegetable juices (SIC 2099) and natural spring waters (SIC 5049); flavoring extracts, syrups except chocolate syrup (SIC 2072).

Color	Fecal Coliform
Specific Conductance	Chloride
Total Coliform	SEE NOTE BELOW

SIC 209 MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS

Cottonseed oil mills; soybean oil mills; vegetable oil mills; animal and marine fats and oils except edible lard, tallow and stearin (SIC 201) and fatty acids (SIC 2899); roasted coffee, shortening, table oils, and other edible oils except corn oil (SIC 2046), ice, macaroni, spaghetti, etc.; all other food preparations.

Color	Oil & Grease
Chloride	SEE NOTE BELOW
Total Coliform	
Fecal Coliform	

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

SIC 22 TEXTILE MILL PRODUCTS

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage; (2) manufacturing broad woven fabric, narrow woven fabric, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, bonded-fiber fabrics, and miscellaneous textiles.

This classification makes no distinction between the two types of organizations which operate in the textile industry: (1) the "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; and (2) the "contract" or "commission" mill which processes materials owned by others. Converters or other non-manufacturing establishments which assign materials to contract mills for processing (other than knitting) are classified in nonmanufacturing industries; establishments which assign yarns to outside contractors or commission knitters for the production of knit products are classified in Group 225.

Color	Sulfide
Specific Conductance	Phenols
Turbidity	Chromium
Chloride	Surfactants
Nitrite (as N)	SEE NOTE BELOW
Sulfate	

SIC 23 APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs.

Included in the apparel industries are three types of establishments: (1) the "Regular" or inside factories, (2) contract factories, and (3) apparel jobbers. The regular factories perform all of the usual manufacturing functions within their own plant; the contract factories manufacture apparel from materials owned by others; and apparel jobbers perform the entrepreneurial functions of a manufacturing company, such as buying raw materials, designing and preparing samples, arranging

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

for the manufacture of the garments from their materials and selling of the finished apparel.

Custom tailors and dressmakers not operating on a factory basis are classified in non-manufacturing industries; establishments which purchase and resell finished garments but do not perform the functions of the apparel jobbers are classified in Wholesale Trade.

Color	Chromium
Specific Conductance	Mercury
Chloride	Surfactants
Sulfide	SEE NOTE BELOW

SIC 24 LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are classified in Major Group 25; pianos, musical instruments, toys and playground equipment, and caskets and coffins in Major Group 39. Woodworking in connection with construction, in the nature of reconditioning and repair, or performed to individual order, is classified in non-manufacturing industries.

SIC 242 SAWMILLS AND PLANING MILLS

Establishments engaged in sawing rough lumber and timber from logs and bolts, planing mills, hardwood dimensions and floor mills, and special product saw mills.

Color	Total Organic Carbon (T.O.C.)
	SEE NOTE BELOW

SIC 2432 VENEER AND PLYWOOD

Establishments primarily engaged in producing commercial veneer, either face or technical, and those primarily engaged in manufacturing commercial plywood, including nonwood backed or faced veneer and nonwood faced plywood, from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets are classified in

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

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Industry 2443, and wood boxes in Industries 2441 and 2442.

Color	Total Organic Carbon (T.O.C.)
	SEE NOTE BELOW

SIC 2491 WOOD PRESERVING

Establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. This industry also includes the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in manufacturing other wood products, which they may also treat with preservatives, are not included.

Color	Total Organic Carbon (T.O.C.)
Chloride	Chromium
Nitrite (as N)	Copper
Sulfate	Mercury
Oil & Grease	SEE NOTE BELOW
Phenols	

SIC 26 PAPER AND ALLIED PRODUCTS

This major group includes the manufacture of pulps from wood and other cellulose fibers, and rags; the manufacture of paper and paperboard; and the manufacture of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes, and envelopes. Certain types of converted paper products are classified elsewhere, such as abrasive paper in Industry 3291, carbon paper in Industry 3955, and photosensitized and blueprint paper in Industry 3861.

Color	Copper
Specific Conductance	Lead
Bromide	Mercury
Chloride	Nickel
Sulfate	Sodium
Sulfite	Zinc
Phenols	Total Coliform
Total Organic Carbon (T.O.C.)	
Chromium	SEE NOTE BELOW

SIC 281 INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)

This group includes establishments primarily engaged in manufacturing basic industrial inorganic and organic chemicals. Establishments primarily engaged in manufacturing formulated agricultural pesticides

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

are classified in Industry 2879; organic and inorganic medicinal chemicals, drugs and medicines in Industry 2833; wood distillation products and naval stores in Group 286; and soap, glycerin (except synthetic), and cosmetics in Group 284. (Also see SIC 2819, below).

Chloride	Cadmium
Cyanide	-Calcium
Fluoride	Chromium
Phenols	Iron
Sulfate	Lead
Sulfide	Mercury
Total Organic Carbon (T.O.C.)	Sodium
Aluminum	-Titanium
-Arsenic	Zinc
	SEE NOTE BELOW

SIC 2818 INDUSTRIAL ORGANIC CHEMICALS

Establishments primarily engaged in manufacturing industrial organic chemicals, not elsewhere classified. Important products of this industry include: (1) non-cyclic organic chemicals such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethyl ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; and (9) esters, amines, etc. of polyhydric alcohols and fatty and other acids. Establishments primarily engaged in manufacturing plastic materials and nonvulcanizable elastomers are classified in Industry 2821; synthetic rubber in Industry 2822; essential oils in Industry 2899; wood distillation products, naval stores, and natural dyeing and tanning materials in Group 286; rayon and other synthetic fibers in Industries 2823 and 2824; specialty cleaning, polishing and sanitation preparations in Industry 2842; and paints

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

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in Industry 2851; organic pigments in Industry 2815; and inorganic pigments in Industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in Industry 2085.

1 Color	11 Aluminum
2 Chlorinated Hydrocarbons	12 Cadmium
3 Oil & Grease	13 Chromium
4 Phenols	14 Cobalt
5 Total Organic Carbon (T.O.C.)	15 Copper
6 Chloride	16 Iron
7 Cyanide	17 Lead
8 Fluoride	18 Magnesium
9 Sulfate	19 Manganese
10 Sulfide	20 Mercury
	21 Zinc

SEE NOTE BELOW

Out of G. but added 2

SIC 2819 Nuclear Fuel Scrap Reprocessing Plants ONLY

In addition to the parameters listed in the more general classification under SIC 281, this group must also report Radioactivity as requested in the Instructions for Item B-3 of the application form.

SIC 282 PLASTIC MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MAN-MADE FIBERS, EXCEPT GLASS

This group includes chemical establishments primarily engaged in manufacturing plastics materials and synthetic resins, synthetic rubbers, and cellulosic and man-made organic fibers. Establishments primarily engaged in the manufacture of rubber products, and those primarily engaged in the fabrication of miscellaneous plastics products, are classified in Major Group 30; and textile mills primarily engaged in throwing, spinning, weaving, or knitting textile products from manufactured fibers are classified in Major Group 22.

Chlorinated Hydrocarbons	Sulfate
Chloride	Sulfide
Phenols	SEE NOTE BELOW

SIC 283 DRUGS

This group includes establishments primarily engaged in manufacturing, fabricating, or processing medicinal chemicals and pharmaceutical products. Also included in this group are establishments primarily engaged in the grading, grinding, and milling of botanicals.

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

Color	Total Coliform
Chlorinated Hydrocarbons	Chloride
Phenols	Sulfide
Turbidity	SEE NOTE BELOW

SIC 284 SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

This group includes establishments primarily engaged in manufacturing soap and other detergents and in producing glycerin from vegetable and animal fats and oils; specialty cleaning, polishing, and sanitation preparations; and surface active preparations used as emulsifiers, wetting agents, and finishing agents, including sulfonated oils; and perfume, cosmetics, and other toilet preparations.

Color	Cyanide	Total Coliform
Specific Conductance	Sulfate	SEE NOTE BELOW
Turbidity	Sulfide	
Oil and Grease	Phenols	
Chloride	Surfactants	

SIC 285 PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS

This group includes establishments primarily engaged in manufacturing paints, varnishes, lacquers and enamels; wood fillers, and allied paint products. Establishments primarily engaged in manufacturing carbon black are classified in Industry 2895; bone black, lamp black, and inorganic color pigments in Industry 2816; organic color pigments in Industry 2815; plastic materials in Industry 2821, and printing ink in Industry 2893.

Color	Cobalt
Chlorinated Hydrocarbons	Copper
Oil & Grease	Iron
Chloride	Lead
Cyanide	Manganese
Sulfate	Mercury
Sulfide	Molybdenum
Phenols	Nickel
Total Organic Carbon (T.O.C.)	Titanium
Aluminum	Zinc
Barium	SEE NOTE BELOW
Cadmium	

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NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

SIC 2871 FERTILIZERS

Establishments primarily engaged in manufacturing mixed fertilizers (mixtures containing nitrogen, phosphoric acid (P₂O₅), or potash), from one or more fertilizer material produced in the same establishment. Sulfuric, phosphoric, and nitric acid plants operated in conjunction with fertilizer plants and separately reported are classified in Industry 2819. When separate reports are not available, these acid plants are classified in this industry. Establishments engaged in manufacturing urea are classified in Industry 2818.

Color	Arsenic	Total Coliform
Turbidity	Cadmium	Fecal Coliform
Hardness	Chromium	
Oil and Grease	Copper	
Chloride	Iron	
Fluoride	Lead	
Nitrite	Manganese	
Pesticides	Mercury	
Phosphorus-Ortho (as P)	Nickel	
Sulfate	Zinc	
Aluminum	Radioactivity	
	SEE NOTE BELOW	

SIC 2874 AGRICULTURAL PESTICIDES, AND OTHER AGRICULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED

Establishments primarily engaged in the formulation and preparation of ready-to-use agricultural pest control chemicals, including insecticides, fungicides, and herbicides from technical chemicals or concentrates; and the production of concentrates which require further processing before use as agricultural pesticides. This industry also includes establishments primarily engaged in manufacturing or formulating agricultural chemicals, not elsewhere classified, such as minor or trace elements and soil conditioners. Establishments primarily engaged in manufacturing basic or technical agricultural pest control chemicals including insecticides, fungicides, and herbicides such as lead and calcium arsenates, copper sulfate, DDT, BHC, 2,4-D carbamates, etc., are classified in Group 281. Establishments primarily engaged in manufacturing household or industrial pesticides are classified in Industry 2842, and agricultural line products in Major Group 32.

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

Color	Aluminum
Chlorinated Hydrocarbons	Cadmium
Chloride	Copper
Cyanide	Lead
Hardness	Manganese
Pesticides	Mercury
Phenols	Zinc
Sulfide	SEE NOTE BELOW

SIC 2891 ADHESIVES & GELATIN

Establishments primarily engaged in manufacturing gelatin and industrial and household adhesives, glues, sizes, and cements from vegetable, animal, or purchased synthetic plastics materials. Establishments primarily engaged in manufacturing dessert preparations based on gelatin are classified in Industry 2099; vegetable gelatin or agar-agar in Industry 2833; rubber cement in Industry 3069; and asbestos cement in Industry 3292.

Oil & Grease	Total Organic Carbon (T.O.C.)
Phenols	Total Coliform
	Fecal Coliform
	SEE NOTE BELOW

SIC 2892 EXPLOSIVES

Establishments primarily engaged in manufacturing explosives. Establishments primarily engaged in manufacturing ammunition for small arms are classified in Group 196, and fireworks in Industry 2899.

Color	Cadmium
Bromide	Chromium
Chloride	Copper
Fluoride	Iron
Nitrite (as N)	Lead
Sulfate	Magnesium
Sulfide	Manganese
Aluminum	Mercury
Beryllium	SEE NOTE BELOW
Boron	

SIC 29 PETROLEUM REFINING AND RELATED INDUSTRIES

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials.

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

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Establishments manufacturing and distributing gas to consumers are classified in public utilities industries, and those primarily engaged in producing coke and byproducts in Major Group 33.

Oil & Grease	Arsenic
Chloride	Cadmium
Cyanide	Chromium
Fluoride	Copper
Phenols	Iron
Sulfide	Lead
Sulfite	Nickel
Total Organic Carbon (T.O.C.)	Zinc
Aluminum	SEE NOTE BELOW

SIC 3011 TIRES AND INNER TUBES

Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles; tiring; and camelback, and tire repair and retreading materials. (See parameter list below for SIC 3069).

SIC 3069 FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED

Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires are classified in Industry 7534.

Color	Phenols
Oil & Grease	Sulfite
Chloride	Chromium
	SEE NOTE BELOW

SIC 3079 MISCELLANEOUS PLASTICS PRODUCTS

Establishments primarily engaged in molding primary plastics for the trade, and fabricating miscellaneous finished plastics products. Establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granule powders, or liquids are classified in Industry 2821, and those primarily engaged in manufacturing artificial leather in Industry 2295.

Chlorinated Hydrocarbons	Sulfate
Oil & Grease	Fluoride
Chloride	Chromium
	SEE NOTE BELOW

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

SIC 311 LEATHER TANNING AND FINISHING

This group includes establishments engaged in tanning, currying, and finishing hides and skins into leather. This industry also includes leather converters who buy hides and skins and have them processed into leather on a contract basis by others.

Color	Sulfide
Hardness	Chromium
Turbidity	Sodium
Total Organic Carbon (T.O.C.)	Total Coliform
Oil & Grease	Fecal Coliform
Chloride	SEE NOTE BELOW

SIC 32 STONE, GLASS, AND CONCRETE PRODUCTS

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining activities are classified in mining industries; when separate reports are not available, the mining activities are classified herein with the manufacturing operations.

Oil & Grease	Phenols
Chloride	Chromium
Sulfate	SEE NOTE BELOW
Sulfide	

SIC 33 PRIMARY METAL INDUSTRIES

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings, forging, and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke.

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

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SIC 331 BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS

Color	Arsenic
Turbidity	Cadmium
Hardness	Chromium
Oil & Grease	Copper
Chloride	Iron
Fluoride	Lead
Cyanide	Mercury
Sulfate	Nickel
Sulfide	Potassium
Phenols	Sodium
Antimony	Tin
SEE NOTE BELOW	Zinc

SIC 332 IRON AND STEEL FOUNDRIES

This group includes establishments primarily engaged in manufacturing iron and steel castings. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce iron and steel castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product, are classified in the industry of the specified product. Iron and steel castings are made to a considerable extent by establishments classified in other industries, that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as stoves, furnaces, plumbing fixtures, motor vehicles, etc. Establishments primarily engaged in the manufacture and rolling of steel and also making steel castings are classified in Industry 3312. Establishments primarily engaged in manufacturing nonferrous castings are classified in Group 336.

Color	Cadmium
Turbidity	Chromium
Hardness	Iron
Oil & Grease	Mercury
Fluoride	SEE NOTE BELOW
Arsenic	

SIC 333 PRIMARY SMELTING AND REFINING OF NONFERROUS METALS; SECONDARY REFINING
&
SIC 334 OF NONFERROUS METALS

Establishments primarily engaged in smelting copper from ore and refining, except rolling, drawing or extruding (SIC 3351); smelting lead and zinc from ore and refining, except rolling, drawing and extruding (SIC 3356),

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

production of aluminum and refining, except rolling, drawing, or extruding (SIC 3352).

Oil & Grease	Chromium
Chloride	Copper
Fluoride	Lead
Aluminum	Mercury
Antimony	Silver
Arsenic	Zinc
Cadmium	SEE NOTE BELOW

SIC 336 NONFERROUS FOUNDRIES

This group includes establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze and other nonferrous metals and alloys. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce nonferrous castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Nonferrous castings are made to a considerable extent by establishments classified in other industries that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as machinery, motor vehicles, etc. Establishments primarily engaged in manufacturing iron and steel are classified in Group 332.

Fluoride	Chromium
Oil & Grease	Copper
Aluminum	Lead
Antimony	Zinc
Arsenic	SEE NOTE BELOW
Cadmium	

SIC 34 FABRICATED METAL PRODUCTS, EXCEPT ORDNANCE, MACHINERY, AND TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, hand tools, cutlery, general hardware, non-electric heating apparatus, fabricated structural metal products, metal stampings and a variety of metal and wire products not elsewhere classified. Certain important segments of the metal fabricating industries are classified in other major groups, such as ordnance in Major Group 19; machinery in Major Groups 35 and 36; transportation equipment in Major Group 37; professional, scientific and controlling instruments, watches and clocks in Major Group 38; and

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

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jewelry and silverware in Major Group 39. Establishments primarily engaged in producing ferrous and nonferrous metals and their alloys are classified in Major Group 33.

SIC 347 COATING, ENGRAVING, AND ALLIED SERVICES

Enameling, lacquering, and varnishing metal products for the trade, galvanizing, hot dip coating of metals, engraving, and other related services.

Chloride	Chromium
Cyanide	Copper
Sulfate	Mercury
Sulfide	Nickel
Aluminum	Silver
Cadmium	SEE NOTE BELOW

SIC 35 MACHINERY, EXCEPT ELECTRICAL

This major group includes establishments engaged in manufacturing machinery and equipment, other than electrical (Major Group 36) and transportation equipment (Major Group 37). Machines powered by built-in or detachable motors ordinarily are included in this major group, with the exception of electrical household appliances (Major Group 36). Portable tools, both electric and pneumatic powered, are included in this major group, but hand tools are classified in Major Group 34.

Oil and Grease	Sulfide
Phenols	Manganese
Chloride	SEE NOTE BELOW

SIC 36 ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is included in this group, but industrial machinery and equipment powered by built-in or detachable electric motors is classified in Major Group 35.

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NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

Bromide	Lead
Chloride	Magnesium
Cyanide	Manganese
Sulfide	Mercury
Aluminum	Nickel
Chromium	Zinc
Copper	Radioactivity
Iron	SEE NOTE BELOW

SIC 37 TRANSPORTATION EQUIPMENT (EXCEPT SIC 3731)

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and horse drawn vehicles.

Oil and Grease	Sulfide
Phenols	Manganese
Chloride	SEE NOTE BELOW

SIC 3731 SHIP BUILDING AND REPAIRING

Establishments primarily engaged in building and repairing all types of ships, barges, and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and alteration of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are not classified in the industry.

Oil & Grease	Mercury
Chloride	Zinc
Sulfide	Aluminum
Phenols	Cobalt
Manganese	Titanium
Chromium	Molybdenum
Copper	Chlorinated Hydrocarbons
Iron	Barium
Cadmium	Nickel
Lead	Tin
	SEE NOTE BELOW

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

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SIC 49 ELECTRIC, GAS, AND SANITARY SERVICES

This major group includes companies engaged in the generation, transmission and/or distribution of electricity or gas or steam. Such companies and systems may be combinations of any of the above three services and also include other types of service such as transportation, communication, and refrigeration. Water and irrigation systems, and sanitary systems engaged in the collection and disposal of garbage, sewage, and other wastes by means of destroying or processing materials, are also included.

If a company or system has more than one service, and if one service does not constitute 95 percent or more of revenues, the company or system should be classified as a combination in Group 493, with the subgroup being determined by the major service supplied.

SIC 491 ELECTRIC COMPANIES AND SYSTEMS

Companies and Systems engaged in the generation, transmission and/or distribution of electric energy for sale. (See parameter list for SIC 493, below)

SIC 493 COMBINATION COMPANIES AND SYSTEMS

Companies and systems providing electric or gas services in combination with other services. Companies or systems are classified here only if one service does not constitute 95 percent or more of revenues.

Chloride
Sulfite
Chromium

Zinc
Radioactivity (Nuclear Plants Only)
Phenols
SEE NOTE BELOW

CCR 000036057

NOTE: If it is certain that one or more of the required parameters is not present in the initial untreated or treated intake water and/or the discharge, enter "A" (meaning "absent") in the appropriate space.

SECTION II. PLANT PROCESS AND DISCHARGE DESCRIPTION

1. Discharge described below is a. Present ☐ b. Proposed new or changed ☐		2. Implementation schedule ☐	(Office use only)
Name of corporate boundaries within which the point of discharge is located. State County City or Town			6. Discharge Serial No.
3. _____		4. _____	5. _____
State the precise location of the point of discharge. 7. Latitude _____ Degrees; _____ Min; _____ Sec. 8. Longitude _____ Degrees; _____ Min; _____ Sec.		9. Name of waterway at the point of discharge.	
10. Has application for water quality certification or description of impact been made? If so, give date: Date _____ mo day yr Check if certificate is attached to form ☐ Name Issuing Agency _____			
11. Narrative description of activity (include terms of general 4-digit Standard Industrial Classification, and specific manufacturing process). 			
12. Standard industrial classification number. _____ _____ _____	13. Principal product. _____ _____ _____	14. Amount of principal product produced per day. _____ _____ _____	
15. Principal raw material. _____ _____ _____	16. Amount of principal raw material consumed per day. _____ _____ _____	17. Number of batch discharges per day. _____ _____ _____	
18. Average gallons per batch discharge. _____	19. Date discharge began. _____ mo day yr	20. Date discharge will begin. _____ mo day yr	
21. Describe waste abatement practices. 			

CCR 000036058

If known hazardous or potentially hazardous substances in your plant been inventoried?

☐ Yes

☐ No

24b. If yes, have steps been taken to insure that there exists no possibility of any such known hazardous or potentially hazardous substance entering this discharge?

☐ Yes

☐ No

25. Remarks.

The information above completes the basic reporting requirements which are required of all applicants. Those applicants whose discharge results from an activity included within any of the Standard Industrial Classification Code (SIC Code) categories listed below must complete Part A of this form as well.

CRITICAL INDUSTRIAL GROUPS

SIC 098	FISH HATCHERIES, FARMS, AND PRESERVES	SIC 285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC 10-14	DIVISION B -- MINING	SIC 2871	FERTILIZERS
SIC 201	MEAT PRODUCTS	SIC 2879	AGRICULTURAL PESTICIDES, AND OTHER AGRICULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
SIC 202	DAIRY PRODUCTS	SIC 2891	ADHESIVES AND GELATIN
SIC 203	CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)	SIC 2892	EXPLOSIVES
SIC 2031, 2036	CANNED AND CURED FISH AND SEAFOODS; FRESH OR FROZEN PACKAGED FISH AND SEAFOODS	SIC 29	PETROLEUM REFINING AND RELATED INDUSTRIES
SIC 204	GRAIN MILL PRODUCTS	SIC 3011, 3069	TIRES AND INNER TUBES; FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC 206	SUGAR	SIC 3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC 207	CONFECTIONARY AND RELATED PRODUCTS	SIC 311	LEATHER TANNING AND FINISHING
SIC 208	BEVERAGES	SIC 32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC 209	MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS	SIC 331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
SIC 22	TEXTILE MILL PRODUCTS	SIC 332	IRON AND STEEL FOUNDRIES
SIC 23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	SIC 333, 334	PRIMARY SMELTING AND REFINING OF NON-FERROUS METALS; SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
SIC 242	SAWMILLS AND PLANING MILLS	SIC 336	NONFERROUS FOUNDRIES
SIC 2432	VENEER AND PLYWOOD	SIC 347	COATING, ENGRAVING, AND ALLIED SERVICES
SIC 2491	WOOD PRESERVING	SIC 35	MACHINERY, EXCEPT ELECTRICAL
SIC 26	PAPER AND ALLIED PRODUCTS	SIC 36	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
SIC 281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)	SIC 37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
SIC 2818	INDUSTRIAL ORGANIC CHEMICALS	SIC 3731	SHIP BUILDING AND REPAIRING
SIC 282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MAN-MADE FIBERS, EXCEPT GLASS	SIC 491	ELECTRIC COMPANIES AND SYSTEMS
SIC 283	DRUGS	SIC 493	COMBINATION COMPANIES AND SYSTEMS
SIC 284	SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS		

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PART A

(Note: Submission of Part A is required of all applicants whose processes are listed on page 3 above.)

(Office use only)

Discharge Serial No.

INFORMATION REQUIRED OF SPECIFIED INDUSTRIES

Intake	Discharge										
PARAMETER AND CODE	(1) DAILY AVG. CONCENTRATION UNTREATED INTAKE WATER	(2) MAXIMUM CONCENTRATION TREATED INTAKE WATER	(3) MAXIMUM CONCENTRATION PER PROCESS UNIT	(4) MAXIMUM POUNDS PER DAY PER DAY	(5) DAILY AVG. CONCENTRATION	(6) AVERAGE POUNDS PER DAY	(7) SAMPLE TYPE	(8) SAMPLE FREQUENCY	(9) METHOD OF ANALYSIS	(10) CONTINUOUS MONITORING	(11)
ALKALINITY (as Ca CO ₃) 00410											
B.O.D. 5-DAY 00310											
CHEMICAL OXYGEN DEMAND (C.O.D.) 00340											
TOTAL SOLIDS 00500											
TOTAL DISSOLVED SOLIDS 70300											
TOTAL SUSPENDED SOLIDS 00530											
TOTAL VOLATILE SOLIDS 00505											
AMMONIA (as N) 00610											
KJELDAHL NITROGEN 00625											
NITRATE (as N) 00620											
PHOSPHORUS TOTAL (as P) 00665											

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TABLE A
Guide for Completion of Part A

PARAMETER & UNITS	METHOD	REFERENCES			SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13TH ED. 1971	A.S.T.M. STANDARDS Pt. 23 1970	W.Q.O. METHODS 1971	
ALKALINITY AS Ca CO ₃ Mg/liter	ELECTROMETRIC TITRATION TECHNICON METHYL ORANGE METHOD	p. 370	p. 154	p. 6	X.
B.O.D. 5-DAY Mg/liter	MODIFIED WINKLER METHOD OR PROBE METHOD	p. 489	p. 712	p. 15	X.
CHEMICAL OXYGEN DEMAND (C.O.D.) Mg/liter	DICHROMATE REFLUX METHOD	p. 495	—	p. 17	X.
TOTAL SOLIDS Mg/liter	GRAVIMETRIC, 105 °C. METHOD	p. 535	—	p. 280	X.
TOTAL DISSOLVED (FILTERABLE) SOLIDS Mg/liter	GLASS FIBER FILTRATION METHOD, 180°C.	p. 539	—	p. 275	X.
TOTAL SUSPENDED (NON-FILTERABLE) SOLIDS Mg/liter	GLASS FIBER FILTRATION METHOD, 103-105°C.	p. 537	—	p. 278	X.
TOTAL VOLATILE SOLIDS Mg/liter	GRAVIMETRIC METHOD 550°C.	p. 536	—	p. 282	X.
AMMONIA (as N) Mg/liter	DISTILLATION-NESSLERIZATION METHOD OR TECHNICON-DIGESTION & PHENOLATE METHOD	p. 453	—	p. 134	.XX
KJELDAHL NITROGEN Mg/liter	DIGESTION-DISTILLATION METHOD OR TECHNICON-DIGESTION & PHENOLATE METHOD	p. 469	—	p. 149	.XX
NITRATE (as N) Mg/liter	BRUCINE SULFATE METHOD OR TECHNICON-HYDRAZINE REDUCTION METHOD	p. 461	—	p. 170	.XX
TOTAL PHOSPHORUS (as P) Mg/liter	PERSULFATE DIGESTION & SINGLE REAGENT METHOD OR TECHNICON-MANUAL DIGESTION & SINGLE REAGENT OR STANNOUS CHLORIDE	p. 526	—	p. 235	.XX

22. PHYSICAL DESCRIPTION OF INTAKE WATER AND DISCHARGE							
Intake		Discharge			(Office use only)		
Parameter and Code	UNTREATED INTAKE WATER	TREATED INTAKE WATER	AVERAGE (DAILY)	MINIMUM (OPERATING YEAR)	MAXIMUM (OPERATING YEAR)	SAMPLE FREQUENCY	DISCHARGE SERIAL NO.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Flow (Gallons per day) 00056							
pH 00400							
Temperature (Winter) (°F) 74028							
Temperature (Summer) (°F) 74027							

23. DISCHARGE CONTENTS								
PARAMETER	PRESENT	ABSENT	PARAMETER	PRESENT	ABSENT	PARAMETER	PRESENT	ABSENT
Color 00080			Aluminum 01106			Nickel 01067		
Turbidity 00070			Antimony 01097			Selenium 01147		
Radioactivity 74050			Arsenic 01002			Silver 01077		
Hardness 00900			Beryllium 01012			Potassium 00937		
Solids 00500			Barium 01007			Sodium 00929		
Ammonia 00610			Boron 01022			Titanium 01152		
Organic Nitrogen 00605			Cadmium 01027			Tin 01102		
Nitrate 00620			Calcium 00916			Zinc 01092		
Nitrite 00615			Cobalt 01037			Algicides 74051		
Phosphorus 00665			Chromium 01034			Oil and Grease 00550		
Sulfate 00945			Copper 01042			Phenols 32730		
Sulfide 00745			Iron 01045			Surfactants 38260		
Sulfite 00740			Lead 01051			Chlorinated Hydrocarbons 74052		
Bromide 71870			Magnesium 00927			Pesticides 74053		
Chloride 00940			Manganese 01055			Fecal Streptococci Bacteria 74054		
Cyanide 00720			Mercury 71900			Coliform Bacteria 74056		
Fluoride 00951			Molybdenum 01062					

PART A

(Note: Submission of Part A is required of all applicants whose processes are listed on page 3 above.)

(Office use only)

Discharge Serial No.

INFORMATION REQUIRED OF SPECIFIED INDUSTRIES

Intake	Discharge										
PARAMETER AND CODE	(1) DAILY AVG. CONCENTRATION	(2) TREATED INTAKE WATER MAXIMUM CONCENTRATION	(3) MAXIMUM CONCENTRATION PER PROCESS UNIT	(4) MAXIMUM POUNDS PER DAY	(5) DAILY AVG. CONCENTRATION	(6) AVERAGE POUNDS PER DAY	(7) SAMPLE TYPE	(8) SAMPLE FREQUENCY	(9) METHOD OF ANALYSIS	(10) CONTINUOUS MONITORING	(11)
ALKALINITY (as Ca CO ₃) 00410											
B.O.D. 5-DAY 00310											
CHEMICAL OXYGEN DEMAND (C.O.D.) 00340											
TOTAL SOLIDS 00500											
TOTAL DISSOLVED SOLIDS 70300											
TOTAL SUSPENDED SOLIDS 00530											
TOTAL VOLATILE SOLIDS 00505											
AMMONIA (as N) 00610											
KJELDAHL NITROGEN 00625											
NITRATE (as N) 00620											
PHOSPHORUS TOTAL (as P) 00665											

PART B DISCHARGE DESCRIPTION

(Note: Submission of Part B is required of all applicants who are also required to submit Part A. Only those parameters specifically indicated in the instructions are to be reported by a particular industry)

(Office use only)

Discharge Serial No.

B-1. PHYSICAL AND BIOLOGICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-1)

Intake	Discharge						
UNTREATED INTAKE WATER	TREATED INTAKE WATER	AVERAGE (DAILY)	MINIMUM (OPERATING YEAR)	MAXIMUM (OPERATING YEAR)	SAMPLE FREQUENCY	CONTINUOUS MONITORING	
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)
COLOR 00080							
SPECIFIC CONDUCTANCE 00095							
TURBIDITY 00070							
FECAL STREPTOCOCCI BACTERIA 74054							
FECAL COLIFORM BACTERIA 74055							
TOTAL COLIFORM BACTERIA 74056							

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PART B

(Office use only)

Discharge Serial No.

B-2. CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Intake		Discharge									
PARAMETER AND CODE	UNTREATED INTAKE WATER	TREATED INTAKE WATER	MAXIMUM CONCENTRATION	MAXIMUM POUNDS PER DAY PER PROCESS UNIT	MAXIMUM POUNDS PER DAY	DAILY AVG. CONCENTRATION	AVERAGE POUNDS PER DAY	SAMPLE TYPE	METHOD OF ANALYSIS	CONTINUOUS MONITORING	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ACIDITY (as CaCO ₃) 00435											
TOTAL ORGANIC CARBON (T.O.C.) 00680											
TOTAL HARDNESS 00900											
NITRITE (as N) 00615											
ORGANIC NITROGEN 00605											
PHOSPHORUS-ORTHO (as P) 70507											
SULFATE 00945											
SULFIDE 00745											
SULFITE 00740											
BROMIDE 71870											

PART B

(Office use only)

Discharge Serial No.

B-2. (cont.)

CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Intake	Discharge										
PARAMETER AND CODE	UNTREATED INTAKE WATER	TREATED INTAKE WATER	MAXIMUM CONCENTRATION	MAXIMUM POUNDS PER DAY PER PROCESS UNIT	MAXIMUM POUNDS PER DAY	DAILY AVG. CONCENTRATION	AVERAGE POUNDS PER DAY	SAMPLE TYPE	SAMPLE FREQUENCY	METHOD OF ANALYSIS	CONTINUOUS MONITORING
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
CHLORIDE 00940											
CYANIDE 00720											
FLUORIDE 00951											
ALUMINUM-TOTAL 01105											
ANTIMONY-TOTAL 01097											
ARSENIC-TOTAL 01002											
BARIUM-TOTAL 01007											
BERYLLIUM-TOTAL 01012											
BORON-TOTAL 01022											
CADMIUM-TOTAL 01027											

PART B

(Office use only)

Discharge Serial No.

B-2. (cont.)

CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Intake	Discharge										
UNTREATED INTAKE WATER	TREATED INTAKE WATER	MAXIMUM CONCENTRATION	MAXIMUM POUNDS PER PROCESS UNIT	MAXIMUM POUNDS PER DAY	DAILY AVG. CONCENTRATION	AVERAGE POUNDS PER DAY	SAMPLE TYPE	METHOD OF ANALYSIS	CONTINUOUS MONITORING		
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
CALCIUM-TOTAL 00916											
CHROMIUM-TOTAL 01034											
COBALT-TOTAL 01037											
COPPER-TOTAL 01042											
IRON-TOTAL 01045											
LEAD-TOTAL 01051											
MAGNESIUM-TOTAL 00927											
MANGANESE-TOTAL 01055											
MERCURY-TOTAL 71900											
MOLYBDENUM-TOTAL 01062											

PART B

(Office use only)

Discharge Serial No.

B-2. (cont.)

CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Intake		Discharge									
PARAMETER AND CODE	UNTREATED INTAKE WATER	TREATED INTAKE WATER	MAXIMUM CONCENTRATION	MAXIMUM POUNDS PER DAY PER PROCESS UNIT	MAXIMUM POUNDS PER DAY	DAILY AVG. CONCENTRATION	AVERAGE POUNDS PER DAY	SAMPLE TYPE	SAMPLE FREQUENCY	METHOD OF ANALYSIS	CONTINUOUS MONITORING
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
NICKEL-TOTAL 01067											
POTASSIUM-TOTAL 00937											
SELENIUM-TOTAL 01147											
SILVER-TOTAL 01077											
SODIUM-TOTAL 00929											
THALLIUM-TOTAL 01059											
TIN-TOTAL 01102											
TITANIUM-TOTAL 01152											
ZINC-TOTAL 01092											
IL AND GREASE 00550											

PART B

(Office use only)

Discharge Serial No.

B-2. (cont.)

CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Intake	Discharge										
PARAMETER AND CODE	UNTREATED INTAKE WATER	TREATED INTAKE WATER	MAXIMUM CONCENTRATION	MAXIMUM POUNDS PER DAY PER PROCESS UNIT	MAXIMUM POUNDS PER DAY	DAILY AVG. CONCENTRATION	AVERAGE POUNDS PER DAY	SAMPLE TYPE	SAMPLE FREQUENCY	METHOD OF ANALYSIS	CONTINUOUS MONITORING
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
PHENOLS 32730											
SURFACTANTS 38260											
ALGICIDES* 74051											
CHLORINATED HYDRO- CARBONS* (EXCEPT PESTICIDES) 74052											
PESTICIDES* 74053											

*Name specific compound(s) and fill in the required data for each. Use extra blanks at the end of the form and the "Remarks" space as necessary.

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PART B

(Office use only)

Discharge Serial No.

B-3. RADIOACTIVE PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-3)

Intake	Discharge						
UNTREATED INTAKE WATER	TREATED INTAKE WATER	AVERAGE (DAILY)	MINIMUM (OPERATING YEAR)	MAXIMUM (OPERATING YEAR)	SAMPLE FREQUENCY	CONTINUOUS MONITORING	
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(5)	(6)	(7)
ALPHA-TOTAL 01501							
ALPHA COUNTING ERROR 01502							
BETA-TOTAL 03501							
BETA COUNTING ERROR 03502							
GAMMA-TOTAL 05501							
GAMMA COUNTING ERROR 05502							
TRITIUM-TOTAL 07000							
TRITIUM COUNTING ERROR 07001							

B-4. REMARKS

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TABLE A
PHYSICAL AND CHEMICAL

<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)
00058	FLOW RATE (GALLONS PER MINUTE)
50050	FLOW IN CONDUIT OR THRU A TREATMENT PLANT (MGD)
00070	TURBIDITY, JACKSON CANDLE (JACKSON UNITS)
00080	COLOR (PLATINUM-COBALT UNITS)
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)
00095	CONDUCTIVITY (MICROMHOS AT 25 DEG C)
00300	DISSOLVED OXYGEN (MG/L)
00310	BIOCHEMICAL OXYGEN DEMAND (MG/L, 5 DAY - 20DEG C)
00340	CHEMICAL OXYGEN DEMAND, .25N K2CR07 (MG/L)
00400	PH (STANDARD UNITS)
00410	ALKALINITY, TOTAL (MG/L AS CAC03)
00435	ACIDITY, TOTAL (MG/L AS CAC03)
00500	RESIDUE, TOTAL (MG/L)
70299	SUSP. SOLIDS - RESIDUE ON EVAP. AT 180 C (MG/L)
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L
00550	OIL-GREASE, TOTAL (MG/L)
00605	NITROGEN, ORGANIC (MG/L AS N)
00610	NITROGEN, AMMONIA (MG/L AS N)
00615	NITRITE (MG/L AS N)
00620	NITRATE (MG/L AS N)
00625	NITROGEN, TOTAL KJELDAHL, (MG/L AS N)
00680	CARBON, TOTAL ORGANIC (MG/L AS C)
00720	CYANIDE (MG/L AS CN)

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<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
01097	ANTIMONY, TOTAL (UG/L AS SB)
✓00927	MAGNESIUM, TOTAL (MG/L AS MG)
01037	COBALT, TOTAL (UG/L AS CO)

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<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
00745	SULFIDE (MG/L AS S)
00940	CHLORIDE (MG/L AS CL)
00945	SULFATE (MG/L AS SO4)
✓01032	CHROMIUM, HEXAVALENT (UG/L AS CR)
✓01045	IRON, TOTAL (UG/L AS FE)
✓01055	MANAGNESE, TOTAL (UG/L AS MN)
✓01070	PHOSPHOROUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)
✓32730	PHENOLS (UG/L)
70507	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)
71870	BROMIDE (MG/L AS BR)
✓71900	MERCURY, TOTAL (UG/L AS HG)
✓00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)
01012	BERYLIUM, TOTAL (UG/L AS BE)
01022	BORON, TOTAL (UG/L AS B)
✓01027	CADMIUM, TOTAL UG/L AS CD)
✓01042	COPPER, TOTAL (UG/L AS CU)
✓01051	LEAD, TOTAL (UG/L AS PB)
01062	MOLYBDENUM, TOTAL (UG/L AS MO)
00916	CALCIUM, TOTAL (MG/L AS CA)
01067	NICKEL, TOTAL (UG/L AS NI)
01077	SILVER, TOTAL (UG/L AS AG)
✓01092	ZINC, TOTAL (UG/L ZN)
01102	TIN, TOTAL (UG/L AS SN)
✓01105	ALUMINUM, TOTAL (UG/L AS AL)
00951	FLUORIDE, TOTAL (MG/L AS F)

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RADIOACTIVITY

<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
01501	ALPHA, TOTAL
01502	ALPHA, TOTAL, COUNTING ERROR
01503	ALPHA, DISSOLVED
01504	ALPHA, DISSOLVED, COUNTING ERROR
01505	ALPHA, SUSPENDED
01506	ALPHA, SUSPENDED, COUNTING ERROR
01509	ALPHA, SPECIFIC ACTIVITY (PC/GM OF SUSP. SOLIDS)
03501	BETA, TOTAL
03502	BETA, TOTAL, COUNTING ERROR
03503	BETA, DISSOLVED
03504	BETA, DISSOLVED, COUNTING ERROR
03505	BETA, SUSPENDED
03506	BETA, SUSPENDED, COUNTING ERROR
03509	BETA, SPECIFIC ACTIVITY (PC/GM OF SUSP. SOLIDS)
05501	GAMMA, TOTAL
05502	GAMMA, TOTAL, COUNTING ERROR
05503	GAMMA, DISSOLVED
05504	GAMMA, DISSOLVED, COUNTING ERROR
05505	GAMMA, SUSPENDED
05506	GAMMA, SUSPENDED, COUNTING ERROR
07000	TRITIUM (1H3), TOTAL (PICOCURIES/LITER)
07001	TRITIUM, TOTAL, COUNTING ERROR (PICOCURIES/LITER)
09501	RADIUM 226, TOTAL
09502	RADIUM 226, TOTAL, COUNTING ERROR
09503	RADIUM 226, DISSOLVED

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<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
09504	RADIUM 226, DISSOLVED, COUNTING ERROR
09505	RADIUM 226, SUSPENDED
09506	RADIUM 226, SUSPENDED, COUNTING ERROR
11501	RADIUM 228, TOTAL
11502	RADIUM 228, TOTAL, COUNTING ERROR
13501	STRONTIUM 90, TOTAL
13502	STRONTIUM 90, TOTAL, COUNTING ERROR
13503	STRONTIUM 90, DISSOLVED
13504	STRONTIUM 90, DISSOLVED, COUNTING ERROR
13505	STRONTIUM 90, SUSPENDED
13506	STRONTIUM 90, SUSPENDED, COUNTING ERROR
15501	STRONTIUM 89, TOTAL
15502	STRONTIUM 89, TOTAL, COUNTING ERROR
17501	LEAD 210, TOTAL
17502	LEAD 210, TOTAL, COUNTING ERROR
17503	LEAD 210, DISSOLVED
17504	LEAD 210, DISSOLVED, COUNTING ERROR
17505	LEAD 210, SUSPENDED
17506	LEAD 210, SUSPENDED, COUNTING ERROR
18501	IODINE 129, TOTAL
18502	IODINE 129, TOTAL, COUNTING ERROR
19501	POLONIUM 210, TOTAL
19502	POLONIUM 210, TOTAL, COUNTING ERROR
19503	POLONIUM 210, DISSOLVED

<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
19504	POLONIUM 210, DISSOLVED, COUNTING ERROR
19505	POLONIUM 210, SUSPENDED
19506	POLONIUM 210, SUSPENDED, COUNTING ERROR
20501	RADIUM 223, TOTAL
20512	RADIUM 223, TOTAL, COUNTING ERROR
21501	PROTACTINIUM 231, TOTAL
21502	PROTACTINIUM 231, TOTAL, COUNTING ERROR
22501	THORIUM 232, TOTAL
22502	THORIUM 232, TOTAL, COUNTING ERROR
22601	URANIUM 238, TOTAL
22602	URANIUM 238, TOTAL, COUNTING ERROR
22703	URANIUM, NATURAL, DISSOLVED
22705	URANIUM, NATURAL, SUSPENDED
23501	ASTATINE 211, TOTAL
23502	ASTATINE 211, COUNTING ERROR
24501	RADIUM 224, TOTAL
24502	RADIUM 224, TOTAL, COUNTING ERROR
25501	ACTINIUM 227, TOTAL
25502	ACTINIUM 227, TOTAL, COUNTING ERROR
26403	THORIUM, NATURAL, DISSOLVED
26404	THORIUM, NATURAL, DISSOLVED, COUNTING ERROR
26405	THORIUM, NATURAL, SUSPENDED
26406	THORIUM, NATURAL, SUSPENDED, COUNTING ERROR

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<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
26501	THORIUM 230, TOTAL
26502	THORIUM 230, TOTAL, COUNTING ERROR
26503	THORIUM 230, DISSOLVED
26504	THORIUM 230, DISSOLVED, COUNTING ERROR
26505	THORIUM 230, SUSPENDED
26506	THORIUM 230, SUSPENDED, COUNTING ERROR
26603	THORIUM, ALPHA, DISSOLVED
26604	THORIUM, ALPHA, DISSOLVED, COUNTING ERROR
26623	THORIUM, BETA, DISSOLVED
26624	THORIUM, BETA, DISSOLVED, COUNTING ERROR
27501	YTTRIUM 90, TOTAL
27502	YTTRIUM 90, TOTAL, COUNTING ERROR
27601	YTTRIUM 91, TOTAL
27602	YTTRIUM 91, TOTAL, COUNTING ERROR
27701	ZIRCONIUM 95, TOTAL
27702	ZIRCONIUM 95, TOTAL, COUNTING ERROR
27801	NIOBIUM 95, TOTAL
27802	NIOBIUM 95, TOTAL, COUNTING ERROR
27901	RUTHENIUM 103, TOTAL
27902	RUTHENIUM 103, TOTAL, COUNTING ERROR
28001	RUTHENIUM 106, TOTAL
28002	RUTHENIUM 106, TOTAL, COUNTING ERROR
28101	RHODIUM 103, TOTAL
28102	RHODIUM 103, TOTAL, COUNTING ERROR

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<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
28201	RHODIUM 106, TOTAL
28202	RHODIUM 106, TOTAL, COUNTING ERROR
28301	IODINE 131, TOTAL
28302	IODINE 131, TOTAL, COUNTING ERROR
28401	CESIUM 137, TOTAL
28402	CESIUM 137, TOTAL, COUNTING ERROR
28501	BARIUM 137, TOTAL
28502	BARIUM 137, TOTAL, COUNTING ERROR
28601	BARIUM 140, TOTAL
28602	BARIUM 140, TOTAL, COUNTING ERROR
28701	LANTHANUM 140, TOTAL
28702	LANTHANUM 140, TOTAL, COUNTING ERROR
28801	CERIUM 141, TOTAL
28802	CERIUM 141, TOTAL, COUNTING ERROR
28901	CERIUM 144, TOTAL
28902	CERIUM 144, TOTAL, COUNTING ERROR
29001	PRASEODYMIUM 143, TOTAL
29002	PRASEODYMIUM 143, TOTAL, COUNTING ERROR
29101	PRASEODYMIUM 144, TOTAL
29102	PRASEODYMIUM 144, TOTAL, COUNTING ERROR
29201	PROMETHEUM 147, TOTAL
29202	PROMETHEUM 147, TOTAL, COUNTING ERROR
29301	ZINC 65, TOTAL
29302	ZINC 65, TOTAL, COUNTING ERROR
29401	CHROMIUM 51, TOTAL

<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
29402	CHROMIUM 51, TOTAL, COUNTING ERROR
29501	MANGANESE 54, TOTAL
29502	MANGANESE 54, TOTAL, COUNTING ERROR
29601	COBALT 60, TOTAL
29602	COBALT 60, TOTAL, COUNTING ERROR
01513	ALPHA, TOTAL
01514	ALPHA, TOTAL, COUNTING ERROR
01511	ALPHA, DISSOLVED
01512	ALPHA, DISSOLVED, COUNTING ERROR
01510	ALPHA, SUSPENDED, COUNTING ERROR
03513	BETA, TOTAL
03514	BETA, TOTAL, COUNTING ERROR
03511	BETA, DISSOLVED
03512	BETA, DISSOLVED, COUNTING ERROR
03510	BETA, SUSPENDED, COUNTING ERROR
05513	GAMMA, TOTAL
05514	GAMMA, TOTAL, COUNTING ERROR
05511	GAMMA, DISSOLVED
05512	GAMMA, DISSOLVED, COUNTING ERROR
05509	GAMMA, SUSPENDED
05510	GAMMA, SUSPENDED, COUNTING ERROR
09510	RADIUM 226, DISSOLVED, PLANCHET COUNT
09511	RADIUM 226, DISSOLVED, RADON METHOD
01515	DISSOLVED GROSS ALPHA, AS URANIUM-NATURAL, PC/L

<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
01516	SUSPENDED GROSS ALPHA AS URANIUM NATURAL, PC/L
03515	DISSOLVED GROSS BETA AS CS-137, PC/L
03516	SUSPENDED GROSS BETA AS CS-137, PC/L
01517	SUSPENDED ALPHA SPECIFIC ACTIVITY AS U-NATURAL
01518	SUSPENDED ALPHA, SPECIFIC ACTIVITY AS U-NAT UG/G
03517	SUSPENDED BETA, SPECIFIC ACTIVITY AS 5890/Y90
03518	SUSPENDED BETA, SPECIFIC ACTIVITY AS CS-137
01490	RAD, GROSS, TOTAL SOLIDS
01491	RAD, GROSS, DISSOLVED SOLIDS
01492	RAD, GROSS, SUSPENDED SOLIDS
75028	POTASSIUM 40, TOTAL, COUNTING ERROR
75029	BARIUM, LANTHANUM 140, TOTAL, COUNTING ERROR
75030	BARIUM, LANTHANUM 140, TOTAL
75031	ZIRCONIUM, NIOBIUM 95, TOTAL, COUNTING ERROR
75032	ZIRCONIUM, NIOBIUM 95, TOTAL
75033	CERIUM 141, 144, TOTAL, COUNTING ERROR
75034	CERIUM 141, 144, TOTAL
75035	RUTHENIUM 103, 106, TOTAL, COUNTING ERROR
75036	RUTHENIUM 103, 106, TOTAL
75037	POTASSIUM 40, TOTAL, COUNTING ERROR
75038	POTASSIUM 40, TOTAL
80005	ALPHA + BETA ACTIVITY / TOTAL SOLIDS OF A SAMPLE
80010	URANIUM, DISS., BY DIRECT FLUOROMETRIC METHOD, PC/L
80015	URANIUM, DISS., BY EXTRACTION FLUOROMETRIC METHOD

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<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
80020	URANIUM, DISS., BY EXTRACTION FLUOROMETRIC METHOD
80030	DISSOLVED GROSS ALPHA, AS URANIUM-NATURAL, UG/L
80040	SUSPENDED GROSS ALPHA, AS URANIUM-NATURAL, UG/L
80050	DISSOLVED GROSS BETA, AS SR-Y-90, PC/L
80060	SUSPENDED GROSS BETA, AS SR-Y-90, PC/L
07005	TRITIUM, DISSOLVED (PC/L)
07006	TRITIUM, DISSOLVED, COUNTING ERROR (PC/L)
07010	TRITIUM, SUSPENDED (PC/L)
07011	TRITIUM, SUSPENDED, COUNTING ERROR (PC/L)

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PESTICIDES AND CHLORINATED HYDROCARBONS

<u>CODE</u>	<u>PARAMETER DESCRIPTION</u>
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)
3940	BENZENE HEXACHLORIDE (LINDANE) WHOLE SAMP. (UG/L)
39341	BENZENE HEXACHLORIDE (LINDANE) FILT. FRAC. (UG/L)
39342	BENZENE HEXACHLORIDE (LINDANE) SUSP. FRAC. (UG/L)
39350	CHLORDANE IN WHOLE WATER SAMPLE (UG/L)
39360	DDD IN WHOLE WATER SAMPLE (UG/L)
39361	DDD IN FILT. FRAC. OF WATER SAMPLE (UG/L)
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)
39365	DDE IN WHOLE WATER SAMPLE (UG/L)
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)
39370	DDT IN WHOLE WATER SAMPLE (UG/L)
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)

39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)
39411	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT SAMP (UG/L)
39430	ISODRIN IN WHOLE WATER SAMPLE (UG/L)
39431	ISODRIN IN FILT. FRAC. WATER SAMPLE (UG/L)
39432	ISODRIN IN SUSP. FRAC. WATER SAMPLE (UG/L)
39440	1,2,3,4,7,7-HEXACHLORO NORBORNADIENE-2,5 (UG/L)
39441	1,2,3,4,7,7-HEXACHLORO NORBORNADIENE-2,5 (UG/L)
39442	1,2,3,4,7,7-HEXACHLORO NORBORNADIENE-2,5 (UG/L)
39450	1,2,3,4,5,7,7-HEPTACHLORO NORBORNENE-2 WWS (UG/L)
39451	1,2,3,4,5,7,7-HEPTACHLORO NORBORNENE-2 FFS (UG/L)
39452	1,2,3,4,5,7,7-HEPTACHLORO NORBORNENE-2 SFS (UG/L)
39460	CHLOROBENZILATE IN WHOLE WATER SAMPLE (UG/L)
39470	DILAN IN WHOLE WATER SAMPLE (UG/L)
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)
39550	CHLOROTHION IN WHOLE WATER SAMPLE (UG/L)
39560	DEMETON IN WHOLE WATER SAMPLE (UG/L)
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)
39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)
39590	HEPT IN WHOLE WATER SAMPLE (UG/L)
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)
39610	PHOSDRIN IN WHOLE WATER SAMPLE (UG/L)

39620 TEPP IN WHOLE WATER SAMPLE (UG/L)
39730 2,4-D IN WHOLE WATER SAMPLE (UG/L)
39740 2,4,5-T IN WHOLE WATER SAMPLE (UG/L)
39750 SEVIN IN WHOLE WATER SAMPLE (UG/L)
39760 SILVEX IN WHOLE WATER SAMPLE (UG/L)
39770 DACTHAL (DCPA) IN WHOLE WATER SAMPLE (UG/L)
39780 DICOFOL IN WHOLE WATER SAMPLE (UG/L)
39790 METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)
39800 IMIDAN IN WHOLE WATER SAMPLE (UG/L)
39900 ALLETHRIN IN WHOLE WATER SAMPLE (UG/L)
39910 CINERIN IN WHOLE WATER SAMPLE (UG/L)
39920 DNOC IN WHOLE WATER SAMPLE (UG/L)
39930 PYRETHRINS IN WHOLE WATER SAMPLE (UG/L)
39388 ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)
39398 ETHION IN WHOLE WATER SAMPLE (UG/L)
39786 TRITHION IN WHOLE WATER SAMPLE (UG/L)

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BIOLOGICAL

<u>CODE</u>	<u>PARAMETER DESCRIPTIONS</u>
31614	FECAL COLIFORM, MOST PROBABLE NUMBER, TUBE CONFIGURATION
31615	FECAL COLIFORM, MOST PROBABLE NUMBER, EC MEDIUM, 44.5 C. FOR TUBE CONFIGURATION SEE CODE 31614
31616	FECAL COLIFORM, MEMBRANE FILTER, M-FC BROTH, 44.5 C
31617	FECAL COLIFORM, MOST PROBABLE NUMBER, EIJKMAN TEST, 45.5 C. FOR TUBE CONFIGURATION SEE CODE 31514
31618	FECAL COLIFORM, TUBE CONFIGURATION (31617)
31619	FECAL COLIFORM, MOST PROBABLE NUMBER, BORIC ACID LACTOSE BROTH, 43 C, 48 HR. FOR TUBE CONFIGURATION SEE CODE 31514
31620	FECAL COLIFORM, TUBE CONFIGURATION (31619)
31673	FECAL STREPTOCOCCI, MEMBRANE FILTER, KF AGAR, 35 C, 48 HR
31675	FECAL STREPTOCOCCI, MOST PROBABLE NUMBER, KF BROTH, 35 C. FOR TUBE CONFIGURATION SEE CODE 31678
31676	FECAL STREPTOCOCCI,MPN,KF BROTH, TUBE CODE (31675)
31677	FECAL STREPTOCOCCI, MOST PROBABLE NUMBER, AD-EVA, 35 C. FOR TUBE CONFIGURATION SEE CODE 31678
31678	FECAL STREPTOCOCCI, MOST PROBABLE NUMBER TUBE CONFIGURATION
31679	FECAL STREPTOCOCCI, MEMBRANE FILTER M-ENTEROCOCCUS AGAR, 35 C, 48 HR
31671	FECAL STREPTOCOCCI, PLATE COUNT KF AGAR, 35 C. 48 HR
31672	FECAL STREPTOCOCCI, PLATE COUNT M-ENTEP AGAR, 35 C. 48 HR

PARAMETER ANALYSES

PHYSICAL PARAMETERS	CODE	METHOD	REFERENCES				DEGREE OF ACCURACY IN REPORTING DATA
			(1) Standard Methods 12th Ed. 1965	(2) ASTM Stds. Pt 23 1968	(3) U.S.G.S.	(4) FWPCA	
Flow							
a. Gallons per minute GPM	00058	State Method Used	-	-	-	-	.XX
b. Million gallons per minute MGD	50050	State Method Used	-	-	-	-	.XXX
Temperature							
a. °C	00010	Mercury, Dial or	*	-	*	-	.X
b. °F	00011	Thermistor	p. 311	-	*	-	.X
pH (Standard Units)	00400	Electrometric or Titration	* pp 226-228	*	*	-	.XX
Color (Units)	00080	Platinum-Cobalt Visual	* pp127-129	-	*	* pp37-40	X.
Odor at Room Temperature (units)	00085	Dilution Series	* p.304	-	-	-	X
Specific Conductance Micromhos	00095	Wheatstone Bridge	* p. 280	* p. 183	*	-	X.
Turbidity (Jackson Units)	00070	Hach 2100 or Equivalent	* pp312-316	-	*	* pp 275-280	X.
Radioactivity Total alpha pc/gram Total beta pc/gram Total gamma pc/gram Others	01513 03513 05513	State Method Used	* pp 327-352				X. X. X.

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CHEMICAL PARAMETERS	CODE	METHOD	REFERENCES				DEGREE OF ACCURACY IN REPORTING DATA
			(1) Standard Methods 12th Ed.	(2) ASTM Stds Pt 23	(3) U.S.G.S.	(4) FWPCA Methods	
Acidity (total) as CaCO ₃ mg/liter	00435	<i>P. Kimball</i> Titration or Electrometric <i>P. Kimball</i>	* p. 46	* pp. 155-158	*	* p. 11	X.
Alkalinity as CaCO ₃ mg/liter	00410	Electrometric Titration-Technicon Methyl Orange	* p. 48	* p. 155	*	* pp. 12-15	X.
Hardness Total mg CaCO ₃ /liter	00900	EDTA Titration Technicon EBT Atomic Absorption	* pp. A7-152	-	*	* pp. 81-85	X.
Total Solids mg/liter	00500	Gravimetric, 105°C	* p. 425	-	-	* pp. 257-259	X.
Total Volatile Solids mg/liter	00505	Gravimetric, 550°C	* p. 425	-	-	* pp. 261-267	X.
Total Suspended Solids mg/liter	00530	Glass Fiber Filtration, 105°C	* p. 425	-	-	* pp. 261-267	X.
Total Organic Carbon (TOC) mg/liter	00680	Dow Beckman (Mod #915) or Carbonaceous	-	-	-	* pp. 211-221	X.
Dissolved Oxygen (DO) mg/liter	00300	Winkler-Azide or D.O. Analyzer	* p. 409	-	*	* pp. 55-68	X.
BOD (5-day) mg/liter	00310	Winkler-Azide or D.O. Analyzer	* pp. 415-421	* pp. 727-732	-	* pp. 17-18	X.
BOD (Ultimate) mg/liter	00320	Winkler-Azide or D.O. Analyzer	* pp. 415-421	* pp. 727-732	-	* pp. 17-18	X.
Chemical Oxygen Demand (COD) mg/liter	00340	Dichromate reflux (either high or low level)	* pp. 510-514	* p. 244	*	* pp. 19-30	High Level X. Low Level X.
Total Oxygen Demand (TOD) mg/liter							X.

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CHEMICAL PARAMETERS	CODE	METHOD	REFERENCES				DEGREE OF ACCURACY IN REPORTING DATA
			(1) Standard Methods 12th Ed.	(2) ASTM Stds Pt 23	(3) U.S.G.S.	(4) FWPCA Methods	
Ammonia (as N) mg/liter	00610	Distillation - Nesslerization Technicon-Sodium Phenolate	* p. 498 389	-	-	* pp.127-142	.XXX
Kjeldahl Nitrogen mg/liter	00625	Digestion-distillation Technicon-digestion + Phenolate	* 404 p. 499	-	-	* pp.145-159	.XXX
Organic Nitrogen mg/liter	00605	Automated Phenolate Method for Organic Ammonia	* p. 499 402	-	-	* pp.197-202	.XX
Nitrate (as N) mg/liter	00620	Brucine Sulfate Technicon-hydrazine reduction	* p. 392	-	*	* pp.165-170	.XX
Nitrite (as N) mg/liter	00615	Diazatization Technicon- Diazotization	* p. 400	-	*	* pp.145-159	.XX
Phosphorus-Ortho (as P) mg/liter	70507	Direct Single reagent Chloride Technicon-Single reagent stannous chloride	* p. 234	-	*	* pp.223-255	.XXX
Phosphorus-Total (as P) mg/liter	00665	Persulfate-digestion +single reagent Technicon-manual digestion+automated single reagent or stannous chloride	* p. 236	-	*	* pp.223-255	.XXX
Sulfate (as S) mg/liter	00945	Turbidimetric Technicon-Barium Chloranilate	* pp291-293	*	-	* pp269-274	X.
Sulfide (as S) mg/liter	00745	Iodometric	* p. 428	-	*	*	.XX
Sulfite (as SO ₃) mg/liter	00740	Iodometric	*	-	-	-	.X

CHEMICAL PARAMETERS	CODE	METHOD	REFERENCES				DEGREE OF ACCURACY IN REPORTING DATA
			(1) Standard Methods 12th Ed.	(2) ASTM Stds Pt 23	(3) U.S.G.S.	(4) FWPCA Methods	
Cobalt mg/liter	01035	State Method Used	-	-	-	-	X.
Chromium, Total mg/liter	01030	Spectrophotometer Atomic Absorption	p. 123	-	*	* pp.87-126	X.
Copper mg/liter	01040	Spectrophotometer Atomic Absorption	p. 129	-	*	* pp.87-126	X.
Iron mg/liter	01045	Spectrophotometer Atomic Absorption	p. 154	-	*	* pp. 87-126	X.
Lead mg/liter	01051	Spectrophotometer Atomic Absorption	p. 163	-	*	* pp.87-126	X.
Magnesium mg/liter	00927	Spectrophotometer Atomic Absorption	p. 167	-	*	* pp.87-126	X.
Manganese mg/liter	01055	Spectrophotometer Atomic Absorption	p. 172	-	*	* pp.87-126	X.
Mercury mg/liter	71900	State Method Used	-	-	-	-	X
Molybdenum mg/liter	01062	State Method Used	-	-	-	-	X
Nickel mg/liter	01067	State Method Used	-	-	-	-	X.
Selenium mg/liter	01145	State Method Used	-	-	-	-	X.

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CHEMICAL PARAMETERS	CODE	METHOD	REFERENCES				DEGREE OF ACCURACY IN REPORTING DATA
			(1) Standard Methods 12th Ed.	(2) ASTM Stds Pt 23	(3) U.S.G.S.	(4) FWPCA Methods	
Bromide mg/liter	71870	Titration Iodometric	* p. 66	-	-	-	.XX
Chloride mg/liter	00940	Mercuric nitrate titration Technicon-Ferricyanide	* pp.87-90	p. 24	*	* pp.31-35	X.
Cyanide mg/liter	00720	Silver nitrate titration or pyridine pyrazalane			*	* pp.41-54	.XX
Fluoride mg/liter	00950	SPADNS with dist. Technicon-Complexone Probe	* pp.144-146	*	-	* pp75-79	.XX
Aluminum mg/liter	01105	Atomic Absorption Spectrophotometer	p. 53	-	-	pp.87-126	X.
Antimony mg/liter	01095	State Method Used	-	-	-	-	X.
Arsenic mg/liter	01000	Silver diethyldithi- ocarbamate Atomic Absorption	* p. 56-57	-	*	* pp.87-126	X.
Beryllium mg/liter	01012	State Method Used	-	-	-	-	.XX
Boron mg/liter	01022	State Method Used	p. 60				X.
Cadmium mg/liter	01027	Spectrophotometer Atomic Absorption	p. 67	-	*	* pp.87-126	X.
Calcium mg/liter	00916	Spectrophotometer Atomic Absorption	p. 70	-	*	* pp.87-126	X.

CHEMICAL PARAMETERS	CODE	METHOD	REFERENCES				DEGREE OF ACCURACY IN REPORTING DATA
			(1) Standard Methods 12th Ed.	(2) ASTM Stds Pt 23	(3) U.S.G.S.	(4) FWPCA Methods	
Silver mg/liter	01077	Spectrophotometer Atomic Absorption	p. 266	-	-	* pp.87-126	.X
Tin mg/liter	01102	State Method Used	-	-	-	-	X.
Zinc mg/liter	01092	Spectrophotometer Atomic Absorption	p. 316	-	-	* pp.87-126	X.
Allycides mg/liter		State Method Used	-	-	-	-	.XXX
Chlorinated Hydrocarbons mg/liter		State Method Used	-	-	-	-	.XXX
Pesticides mg/liter		State Method Used	* p. 224	-	-	-	.XXX
Oil & Grease mg/liter	00550	Hexane Soxhlet Extraction	* p 211-213				.X
Phenols mg/liter	32720	Colorimetric Determination	* pp.229-230	-	-	-	X.
Surfactants mg/liter	38260	Methylene Blue Actine Substance	* pp.296-302	-	-	-	.XX

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References:

1. Standard Methods for the Examination of Water and Waste Water, 12th Edition, 1965, American Public Health Association, New York, New York.
2. ASTM Standards, 1968, Part 23.
3. Techniques of Water Resources Investigations of the U.S. Geological Survey, Book 5, Chapter AI, Brown, Skougstad, and Fishman, Washington, D.C.
4. FWPCA Methods for Chemical Analysis of Water and Wastes, 1969, U.S. Department of Interior, Federal Water Pollution Control Administration, Division of Water Quality Research, Analytical Quality Control Laboratory, Cincinnati, Ohio.

New issue due in July 1971

Copies of the publications are available for review in the District Engineers Offices and the Regional Offices of the Environmental Protection Agency.

TABLE B

CRITICAL INDUSTRIAL GROUPS

SIC 01 AGRICULTURAL PRODUCTION - (EXCEPT LIVESTOCK SIC CODE 013)

SIC 013 LIVESTOCK

SIC 072 ANIMAL HUSBANDRY SERVICES

SIC 098 FISH HATCHERIES, FARMS, AND PRESERVES

DIVISION B - MINING (SIC 10-14)

SIC 19 ORDINANCE AND ACCESSORIES

SIC 201 MEAT PRODUCTS

SIC 202 DAIRY PRODUCTS

SIC 203 CANNED PRESERVED FRUITS, VEGETABLES EXCEPT SEAFOODS (2031,2036)

SIC 2031 CANNED AND CURED FISH AND SEAFOOD, FRESH OR FROZEN, PACKAGED

SIC 2036 FISH AND SEAFOOD

SIC 204 GRAIN MILL PRODUCTS

SIC 206 SUGAR

SIC 207 CONFECTIONARY AND RELATED PRODUCTS

SIC 208 BEVERAGES

SIC 209 MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS

SIC 22,23 TEXTILE MILL PRODUCTS - APPAREL AND OTHER FINISHED PRODUCTS
MADE FROM FABRICS AND SIMILAR MATERIALS

SIC 242 SAWMILLS AND PLANING MILLS

SIC 2432 VENEER AND PLYWOOD

SIC 2491 WOOD PRESERVING

SIC 2499 WOOD PRODUCTS NOT CLASSIFIED ELSEWHERE

SIC 26 PAPER AND ALLIED PRODUCTS

SIC 281,283 INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS - DRUGS (EXCEPT 2818)

SIC 2818 INDUSTRIAL ORGANIC CHEMICALS

CCR 000036094

SIC 282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MAN-MADE FIBERS, EXCEPT GLASS
SIC 284	SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS
SIC 2871	FERTILIZERS
SIC 2879	AGRICULTURAL PESTICIDES, AND OTHER AGRICULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
SIC 29	PETROLEUM REFINING AND RELATED INDUSTRIES
SIC 3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC 3011	TIRES AND INNER TUBES
SIC 3069	FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC 32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC 331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
SIC 332	IRON AND STEEL FOUNDRIES
SIC 333, 334	PRIMARY SMELTING AND REFINING OF NONFERROUS METALS, SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
SIC 336	NONFERROUS FOUNDRIES
SIC 347	COATING, ENGRAVING, AND ALLIED SERVICES
SIC 36	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
SIC 37	TRANSPORTATION EQUIPMENT
SIC 35	MACHINERY, EXCEPT ELECTRICAL
SIC 285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC 2891	ADHESIVES AND GELATIN
SIC 2892	EXPLOSIVES
SIC 491	ELECTRIC COMPANIES AND SYSTEMS

TABLE C

REQUIRED PARAMETERS FOR CRITICAL INDUSTRIAL GROUPS

The following list of parameters will be reported by all applicants of the critical industrial groups in addition to the specific parameters for each standard industrial classification:

- ✓(1) Flow
- ✓(2) Temperature
- ✓(3) pH
- ✓(4) Total Solids
- ✓(5) Total Volatile Solids
- ✓(6) Total Suspended Solids
- ✓(7) Total Dissolved Solids
- ✓(8) Alkalinity (CaCO_3)
- ✓(9) 5 Day B.O.D.
- (10) Ultimate B.O.D.
- ✓(11) Ammonia (as N)
- ✓(12) Nitrate (as N)
- ✓(13) Phosphorus (as P)
- (14) Dissolved Oxygen

New additions

15) Kjeldahl Nitrogen

16) COD

TABLE D

SUPPLEMENTARY PARAMETERS BY INDUSTRY

Division B - Mining

This division includes all establishments primarily engaged in mining. Mining is here used in the broad sense to include the extraction of minerals occurring naturally: solids, such as coal and ores; liquids, such as crude petroleum; and gases, such as natural gas. The term "mining" is also used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparation needed to render the material marketable. Exploration and development of mineral properties are included. Services performed on a contract, fee, or other basis in the development or operation of mineral properties are classified separately but within this division.

Mining operations are classified, by industry, on the basis of the principal mineral produced, or, if there is no production, on the basis of the principal mineral for which development work is in process. The mining of culm banks, ore dumps, and tailing piles is classified as mining according to the principal mineral product derived.

Excluded from this division are the purification and distribution of water (Industry 4941), bottling and distributing of natural spring and mineral waters (Industry 5049), and the crushing, grinding, or otherwise treating of certain earths, rocks, and minerals not in conjunction with mining activities (Industry 3295).

Specific Conductance	Nickel
Turbidity	Oil and Grease
Chloride	Kjeldahl Nitrogen
Bromide	Radioactivity
Sulfate	
Sulfide	
Nitrite (as N)	
Phosphorus-Ortho (as P)	
Chromium	
Copper	
Iron	
Cadmium	
Lead	
Manganese	
Magnesium	
Mercury	
Zinc	
Fluoride	
Aluminum	

CCR 000036097

SIC 01 Agricultural-Production - (Except Livestock SIC Code 13)

This major group includes establishments (farms, ranches, dairies, greenhouses, nurseries, etc.) primarily engaged in the production of crops or plants, vines and trees (excluding forestry operations); and the keeping, grazing, or feeding of livestock for animal products (including serums), for animals increase, or value increase. Livestock as here used includes poultry of all kinds, rabbits, bees, and fur bearing animals in captivity, in addition to mules, asses, burros, horses, cattle, sheep, goats, and hogs. This major group also includes establishments primarily engaged in the operation of dry lot or farm dairies, nurseries, greenhouses, sod farms, mushroom cellars, cranberry bogs, apiaries, and fur farms and the production of bulb, flower, and vegetable seed crops.

Color
Specific Conductance
Nitrite (as N)
Phosphorus-Ortho (as P)
Pesticides
Kjeldahl Nitrogen

SIC 013 Livestock

Color
Odor
Nitrite (as N)
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Phosphorus-Ortho (as N)
Fecal Coloform

89

SIC 07 : Agricultural Services and Hunting and Trapping

This major group includes establishments primarily engaged in performing agricultural, animal husbandry, and horticultural services on a fee or contract basis. Commercial hunting and trapping and the operation of game preserves are also included.

SIC 072 Animal Husbandry Services

Color

Odor

Nitrite (as N)

Kjeldahl Nitrogen

Total Organic Carbon

Phosphorus-Ortho (as P)

Fecal Coliform

SIC 09 Fisheries

This major group includes establishments primarily engaged in commercial fishing; the operation of oyster farms and the tonging and dredging of oysters; the gathering of sponges, seaweed, etc.; and the operation of fish hatcheries or fishing preserves.

SIC 098 Fish Hatcheries, Farms, and Preserves

Color
Odor
Nitrite (as N)
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Phosphorus-Ortho (as P)
Fecal Coliform

CCR 000036100

91

SIC 20 Food and Kindred Products

This major group includes establishments manufacturing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls.

SIC 201 Meat Products

Color
Odor
Oil and Grease
Nitrite (as N)
Phosphorus-Ortho (as P)
Fecal Coliform
Kjeldahl Nitrogen
Chloride

SIC 202 Dairy Products

Color
Odor
Acidity (as CaCO_3)
Nitrite (as N)
Kjeldahl Nitrogen
Phosphorus-Ortho (as P)

SIC 203 Canned & Preserved Fruits, Vegetables Except Seafoods (2031 & 2036)

Odor
Specific Conductance
Oil and Grease
Chloride
Nitrite (as N)
Kjeldahl Nitrogen
Fecal Coliform

SIC 2031 Canned and Cured Fish and Seafood Fresh or Frozen Packaged
Fish and Seafood

Establishments primarily engaged in cooking and canning fish, shrimps, oysters, clams, crabs, and other sea foods; and those engaged in smoking, salting, drying or otherwise curing fish for the trade. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, or freezing and packaging fresh fish, are classified in Industry 2036.

SIC 2036 Establishments primarily engaged in preparing fresh and raw or cooked frozen packaged fish and other sea food. This industry also includes establishments primarily engaged in the shucking and packing of fresh oysters in non-sealed containers.

Odor
Specific Conductance
Oil and Grease
Chloride
Nitrite (as N)
Kjeldahl Nitrogen
Fecal Coliform

SIC 204 Grain Mill Products

Color
Specific Conductance
Turbidity
Oil and Grease
Chloride
Nitrite (as N)
Organic Nitrogen
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Phosphorus-Ortho (as P)
Fecal Coliform

SIC 206 Sugar

Color
Kjeldahl Nitrogen
Phosphorus-Ortho (as P)

CCR 000036102

93

SIC 207. Confectionary and Related Products

Color
Specific Conductance
Chloride
Kjeldahl Nitrogen
Phosphorus-Ortho (as P)

SIC 208 Beverages

pH
Color
Odor
Specific Conductance
Phosphorus-Ortho (as P)
Chloride

SIC 209 Miscellaneous Food Preparations and Kindred Products

Color
Total Solids
Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Kjeldahl Nitrogen
Phosphorus-Ortho (as P)
Total Organic Carbon (TOC)

SUC 22 Textile Mill Products

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage; (2) manufacturing broad woven fabric, narrow woven fabric, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, bonded-fiber fabrics, and miscellaneous textiles.

This classification makes no distinction between the two types of organizations which operate in the textile industry: (1) the "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; and (2) the "contract" or "commission" mill which processes materials owned by others. Converters or other nonmanufacturing establishments which assign materials to contract mills for processing (other than knitting) are classified in nonmanufacturing industries; establishments which assign yarns to outside contractors or commission knitters for the production of knit products are classified in Group 225.

Color
Specific Conductance
Turbidity
Chloride
Sulfate
Sulfide
Kjeldahl Nitrogen
Phosphorus-Ortho (as P)
Chromium
Nitrite
Phenols
Toxicants

85

SIC 23 Apparel and Other Finished Products Made From Fabrics
and Similar Materials

This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs.

Included in the apparel industries are three types of establishments: (1) the "Regular" or inside factories, (2) contract factories, and (3) apparel jobbers. The regular factories perform all of the usual manufacturing functions within their own plant; the contract factories manufacture apparel from materials owned by others; and apparel jobbers perform the entrepreneurial functions of a manufacturing company, such as buying raw materials, designing and preparing samples, arranging for the manufacture of the garments from their materials and selling of the finished apparel.

Custom tailors and dressmakers not operating on a factory basis are classified in nonmanufacturing industries; establishments which purchase and resell finished garments but do not perform the functions of the apparel jobbers are classified in Wholesale Trade.

Color
Specific Conductance
Chloride
Sulfide
Kjeldahl Nitrogen
Phosphorus-Ortho (as P)
Chromium

SIC 24 Lumber and Wood Products, Except Furniture

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are classified in Major Group 25; pianos, musical instruments, toys and playground equipment, and caskets and coffins in Major Group 39. Woodworking in connection with construction, in the nature of reconditioning and repair, or performed to individual order, is classified in nonmanufacturing industries.

SIC 242 Sawmills and Planing Mills

Color

Total Organic Carbon (TOC)

Chemical Oxygen Demand (COD)

97
SIC 2432 Veneer and Plywood

Establishments primarily engaged in producing commercial veneer, either face or technical, and those primarily engaged in manufacturing commercial plywood, including nonwood backed or faced veneer and nonwood faced plywood, from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets are classified in Industry 2443, and wood boxes in Industries 2441 and 2442.

Color

Kjeldahl Nitrogen

Total Organic Carbon (TOC)

Phenol

Chemical Oxygen Demand (COD)

SIC 2491 Wood Preserving

Establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. This industry also includes the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in manufacturing other wood products, which they may also treat with preservatives, are not included.

Color

Odor

Acidity (as CaCO_3)

Chemical Oxygen Demand (COD)

Oil and Grease

Chloride

Sulfate

Phenols

Nitrite (as N)

Kjeldahl Nitrogen

Total Organic Carbon (TOC)

Phosphorus-Ortho (as P)

Chromium

Copper

Mercury

CCR 000036107

SIC 2499 Wood Products Not Classified Elsewhere

Establishments primarily engaged in turning and shaping wood, and manufacturing miscellaneous wood products, not elsewhere classified, such as lasts and related products, cork products, mirror and picture frames, and particle board.

Chemical Oxygen Demand (COD)
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Phosphorus-Ortho (as P)

CCR 000036108

SIC 26 Paper and Allied Products

This major group includes the manufacture of pulps from wood and other cellulose fibers, and rags; the manufacture of paper and paperboard; and the manufacture of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes, and envelopes. Certain types of converted paper products are classified elsewhere, such as abrasive paper in Industry 3291, carbon paper in Industry 3955, and photosensitized and blueprint paper in Industry 3861.

Color
Odor
Specific Conductance
Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Bromide
Sulfate
Sulfide
Sulfite
Phenols
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Phosphorus Ortho (as P)
Sodium
Copper
Lead
Mercury
Zinc
Nickel
Hexavalent Chromium
Total Coliform.
Toxicants
Chromium (Total)

SIC 281 Industrial Inorganic and Organic Chemicals

This group includes establishments primarily engaged in manufacturing basic industrial inorganic and organic chemicals. Establishments primarily engaged in manufacturing formulated agricultural pesticides are classified in Industry 2879; organic and inorganic medicinal chemicals, drugs and medicines in Industry 2833; wood distillation products and naval stores in Group 286; and soap, glycerin (except synthetic), and cosmetics in Group 284.

Turbidity
Sulfate
Sulfide
Phosphorus-Ortho (as P)
Chemical Oxygen Demand (COD)
Chloride
Fluoride

Phenols
Total Organic Carbon (TOC)
Aluminum

Sodium
Calcium
Cadmium
Cyanide
Chromium
Copper
Iron
Lead
Manganese
Nickel
Zinc
Mercury
Nitrite
Organic Nitrogen
Toxicants

101
7
SIC 2818 Industrial Organic Chemicals

Establishments primarily engaged in manufacturing industrial organic chemicals, not elsewhere classified. Important products of this industry include: (1) non-cyclic organic chemicals such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethyl ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; and (9) esters, amines, etc. of polyhydric alcohols and fatty and other acids. Establishments primarily engaged in manufacturing plastic materials and nonvulcanizable elastomers are classified in Industry 2821; synthetic rubber in Industry 2822; essential oils in Industry 2899; wood distillation products, naval stores, and natural dyeing and tanning materials in Group 286; rayon and other synthetic fibers in Industries 2823 and 2824; specialty cleaning, polishing and sanitation preparations in Industry 2842; and paints in Industry 2851; organic pigments in Industry 2815; and inorganic pigments in Industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in Industry 2085.

Color	Chlorinated Hydrocarbons
Odor	Organic Nitrogen
Turbidity	Total Organic Carbon (TOC)
Acidity (as CaCO ₃)	Chromium
Chemical Oxygen Demand (COD)	Copper
Oil and Grease	Iron
Phosphorus-Ortho (as P)	Cadmium
Chloride	Lead
Fluoride	Manganese
Cyanide	Magnesium
Sulfate	Mercury
Sulfide	Zinc
Phenols	Toxicants

CCR 000036111

SIC 282 Plastic Materials and Synthetic Resins, Synthetic Rubber,
Synthetic and Other Man-Made Fibers, Except Glass

This group includes chemical establishments primarily engaged in manufacturing plastics materials and synthetic resins, synthetic rubbers, and cellulosic and man-made organic fibers. Establishments primarily engaged in the manufacture of rubber products, and those primarily engaged in the fabrication of miscellaneous plastics products, are classified in Major Group 30; and textile mills primarily engaged in throwing, spinning, weaving, or knitting textile products from manufactured fibers are classified in Major Group 22.

Color
Odor
Turbidity
Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Chloride
Cyanide
Sulfate
Sulfide
Phenols
Chlorinated Hydrocarbons
Kjeldahl Nitrogen
Toxicants

SIC 283 Drugs (Except 2818)

This group includes establishments primarily engaged in manufacturing, fabricating, or processing medicinal chemicals and pharmaceutical products. Also included in this group are establishments primarily engaged in the grading, grinding, and milling of botanicals.

Color
Odor
Turbidity
Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Chloride
Cyanide
Sulfide
Phenols
Chlorinated Hydrocarbons
Kjeldahl Nitrogen

CCR 000036112

103
47
SIC 284

Soap, Detergents, and Cleaning Preparations, Perfumes, Cosmetics, and Other Toilet Preparations

This group includes establishments primarily engaged in manufacturing soap and other detergents and in producing glycerin from vegetable and animal fats and oils; specialty cleaning, polishing, and sanitation preparations; and surface active preparations used as emulsifiers, wetting agents, and finishing agents, including sulfonated oils; and perfumes, cosmetics, and other toilet preparations.

Color

Odor

Specific Conductance

Turbidity

Chemical Oxygen Demand (COD)

Oil and Grease

Chloride

Cyanide

Sulfate

Sulfide

Phenols

Total Organic Carbon (TOC)

Phosphorus-Ortho (as P)

Manganese-

Calcium

Fecal coliform

Dissolved Oxygen

Chlorinated Hydrocarbons

Surfactants

CCR 000036113

SIC 285 Paints, Varnishes, Lacquers, Enamels, and Allied Products

This group includes establishments primarily engaged in manufacturing paints, varnishes, lacquers and enamels; wood fillers, and allied paint products. Establishments primarily engaged in manufacturing carbon black are classified in Industry 2895; bone black, lamp black, and inorganic color pigments in Industry 2816; organic color pigments in Industry 2815; plastic materials in Industry 2821, and printing ink in Industry 2893.

Color
Odor
Turbidity
Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Cyanide
Sulfate
Sulfide
Phenols
Total Organic Carbon (TOC)
Chromium
Copper
Iron
Cadmium
Lead
Manganese
Mercury
Zinc
Aluminum
Cobalt
Titanium
Molybdenum
Chlorinated Hydrocarbons (DDT Derivatives)
Chromates
Barium
Nickel

SIC 2871 Fertilizers

Establishments primarily engaged in manufacturing mixed fertilizers (mixtures containing nitrogen, phosphoric acid (P_2O_5), or potash), from one or more fertilizer materials produced in the same establishment. Sulfuric, phosphoric, and nitric acid plants operated in conjunction with fertilizer plants and separately reported are classified in Industry 2819. When separate reports are not available these acid plants are classified in this industry. Establishments engaged in manufacturing urea are classified in Industry 2818.

Color
Turbidity
Acidity (as $CaCO_3$)
Chemical Oxygen Demand (COD)
Sulfide
Nitrite (as N)
Organic Nitrogen
Phosphorus-Ortho (as P)
Chromium
Copper
Iron
Cadmium
Lead
Manganese
Magnesium
Mercury
Zinc
Aluminum
Fluoride
Nickel
Radioactivity
Chloride

SIC 2879 Agricultural Pesticides, and Other Agricultural Chemicals,
Not Elsewhere Classified

Establishments primarily engaged in the formulation and preparation of ready-to-use agricultural pest control chemicals, including insecticides, fungicides, and herbicides from technical chemicals or concentrates; and the production of concentrates which require further processing before use as agricultural pesticides. This industry also includes establishments primarily engaged in manufacturing or formulating agricultural chemicals, not elsewhere classified, such as minor or trace elements and soil conditioners. Establishments primarily engaged in manufacturing basic or technical agricultural pest control chemicals including insecticides, fungicides, and herbicides such as lead and calcium arsenates, copper sulfate, DDT BHC, 2, 4-D carbamates, etc. are classified in Group 281. Establishments primarily engaged in manufacturing household or industrial pesticides are classified in Industry 2842, and agricultural lime products in Major Group 32.

Color
Odor
Turbidity
Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Chloride
Cyanide
Sulfide
Phenols
Chlorinated Hydrocarbons
Total Organic Carbon (TOC)
Chromium
Copper
Iron
Cadmium
Lead
Manganese
Magnesium
Mercury
Zinc
Aluminum
Toxicants

CCR 000036116

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas to consumers are classified in public utilities industries, and those primarily engaged in producing cake and byproducts in Major Group 33.

pH
Color
Odor
Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Sulfate
Sulfide
Phenols
Phosphorus-Ortho (as P)

CCR 000036117

SIC 3079 Miscellaneous Plastics Products

Establishments primarily engaged in molding primary plastics for the trade, and fabricating miscellaneous finished plastics products. Establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granules, powders, or liquids are classified in Industry 2821, and those primarily engaged in manufacturing artificial leather in Industry 2295

Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Sulfate
Organic Nitrogen
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Chromium
Toxicity
Chlorinated Hydrocarbons
Phosphorus-Ortho (as P)
Sulfide
Toxicants

SIC 3011 Tires and Inner Tubes

Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles; tiring; and camelback, and tire repair and retreading materials.

Color
Odor
Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Sulfate
Phenols
Organic Nitrogen
Kjeldahl Nitrogen
Total Organic Carbon
Chromium
Toxicants

CCR 000036118

SIC 3063 Fabricated Rubber Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires are classified in Industry 7534.

Color
Odor
Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Sulfate
Phenols
Organic Nitrogen
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Chromium
Toxicants

CCR 000036119

SIC 32 Stone, Clay, Glass, and Concrete Products

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining activities are classified in mining industries; when separate reports are not available, the mining activities are classified herein with the manufacturing operations.

Acidity (as CaCO₃)
Oil and Grease
Chloride
Sulfate
Sulfide
Phenols
Organic Nitrogen
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Phosphorus-Ortho (as P)
Chromium

CCR 000036120

SIC 33 Primary Metal Industries

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This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings, forging, and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke.

SIC 331 Blast Furnaces, Steel Works, and Rolling and Finishing Mills

Color
Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Cyanide
Sulfate
Sulfide
Phenols
Total Organic Carbon (TOC)
Chromium
Iron
Zinc
Nickel
Tin
Turbidity
Lead
Copper
Cadmium
Mercury
Arsenic
Fluoride

CCR 000036121

SIC 332 Iron and Steel Foundries

This group includes establishments primarily engaged in manufacturing iron and steel castings. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce iron and steel castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Iron and steel castings are made to a considerable extent by establishments classified in other industries, that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as stoves, furnaces, plumbing fixtures, motor vehicles, etc. Establishments primarily engaged in the manufacture and rolling of steel and also making steel castings are classified in Industry 3312. Establishments primarily engaged in manufacturing nonferrous castings are classified in Group 336.

Color
Chemical Oxygen Demand (COD)
Oil and Grease
Total Organic Carbon (TOC)
Chromium
Iron
Turbidity
Fluoride
Cadmium
Mercury
Arsenic

CCR 000036122

113
SIC 333 Primary Smelting and Refining of Nonferrous Metals

SIC 334 Secondary Smelting and Refining of Nonferrous Metals

Chemical Oxygen Demand (COD)
Oil and Grease
Phosphorus-Ortho (as P)
Chromium
Chlorides
Lead
Zinc
Aluminum
Fluoride
Cadmium
Mercury
Arsenic

SIC 336 Nonferrous Foundries

This group includes establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze and other nonferrous metals and alloys. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce nonferrous castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Nonferrous castings are made to a considerable extent by establishments classified in other industries that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as machinery, motor vehicles, etc. Establishments primarily engaged in manufacturing iron and steel are classified in Group 332.

Chemical Oxygen Demand (COD)
Oil and Grease
Total Organic Carbon (TOC)
Chromium
Copper
Lead
Zinc
Aluminum
Fluoride
Cadmium
Mercury
Arsenic

CCR 000036123

SIC 34 Fabricated Metal Products, Except Ordnance, Machinery,
and Transportation Equipment

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, hand tools, cutlery, general hardware, non-electric heating apparatus, fabricated structural metal products, metal stampings and a variety of metal and wire products not elsewhere classified. Certain important segments of the metal fabricating industries are classified in other major groups, such as ordnance in Major Group 19; machinery in Major Groups 35 and 36; transportation equipment in Major Group 37; professional, scientific and controlling instruments, watches and clocks in Major Group 38; and jewelry and silverware in Major Group 39. Establishments primarily engaged in producing ferrous and nonferrous metals and their alloys are classified in Major Group 33.

SIC 347 Coating, Engraving, and Allied Services

Chloride
Cyanide
Sulfate
Sulfide
Chromium
Copper
Cadmium
Aluminum
Nickel

CCR 000036124

115

SIC 36 Electrical Machinery, Equipment, and Supplies

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is included in this group, but industrial machinery and equipment powered by built-in or detachable electric motors is classified in Major Group 35.

Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Chloride
Bromide
Cyanide
Sulfate
Sulfide
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Chromium
Copper
Iron
Lead
Manganese
Magnesium
Mercury
Zinc
Aluminum
Nickel
Radioactivity

CCR 000036125

SIC 35 Machinery, Except Electrical

This major group includes establishments engaged in manufacturing machinery and equipment, other than electrical (Major Group 36) and transportation equipment (Major Group 37). Machines powered by built-in or detachable motors ordinarily are included in this major group, with the exception of electrical household appliances (Major Group 36). Portable tools, both electric and penumatic powered, are included in this major group, but hand tools are classified in Major Group 34.

SIC 37 Transportation Equipment

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and horse drawn vehicles.

Acidity (as CaCO_3)
Chemical Oxygen Demand (COD)
Oil and Grease
Chloride
Sulfate
Sulfide
Phenols
Organic Nitrogen
Kjeldahl Nitrogen
Total Organic Carbon
Phosphorus-Ortho (as P)
Manganese

CCR 000036126

117
SIC 2891: Adhesives & Gelatin

Establishments primarily engaged in manufacturing gelatin and industrial and household adhesives, glues, sizes, and cements from vegetable, animal, or purchased synthetic plastics materials. Establishments primarily engaged in manufacturing dessert preparations based on gelatin are classified in Industry 2099; vegetable gelatin or agar-agar in Industry 2833; rubber cement in Industry 3069; and asbestos cement in Industry 3292.

Acidity (as CaCO₃)
Chemical Oxygen Demand (COD)
Oil and Grease
Phenols
Organic Nitrogen
Kjeldahl Nitrogen
Total Organic Carbon (TOC)
Phosphorus-Ortho (as P)
Chlorinated Hydrocarbons (DDT Derivatives)

SIC 2892 Explosives

Establishments primarily engaged in manufacturing explosives. Establishments primarily engaged in manufacturing ammunition for small arms are classified in Group 196, and fireworks in Industry 2899.

Color
Specific Conductance
Acidity (as CaCO₃)
Chemical Oxygen Demand (COD)
Chloride
Bromide
Sulfate
Sulfide
Nitrite (as N)
Phosphorus-Ortho (as P)
Chromium
Copper
Iron
Cadmium
Lead
Manganese
Magnesium
Mercury
Zinc
Fluoride
Aluminum
Kjeldahl Nitrogen
Boron
Beryllium

CCR 000036127

SIC 49 Electric, Gas, and Sanitary Services

This major group includes companies engaged in the generation, transmission and/or distribution of electricity or gas or steam. Such companies and systems may be combinations of any of the above three services and also include other types of service such as transportation, communication, and refrigeration. Water and irrigation systems, and sanitary systems engaged in the collection and disposal of garbage, sewage, and other wastes by means of destroying or processing materials, are also included.

If a company or system has more than one service, and if one service does not constitute 95 percent or more of revenues, the company or system should be classified as a combination in Group 493, with the subgroup being determined by the major service supplied.

SIC 491 Electric Companies and Systems

Chloride
Chromium
Zinc
Radioactivity
Sulfate

CCR 000036128