

**FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION
TPDES General Permit TXR050000 - Multi Sector General Permit**

For proposed Texas Pollutant Discharge Elimination System (TPDES) Multi Sector General Permit (MSGP) Number TXR050000 to discharge to surface water in the state.

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Permit Action: Amendment and Reissuance of a General Stormwater Permit for
Industrial Activities

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I. Summary

The Texas Commission on Environmental Quality (TCEQ) is proposing to renew TPDES Multi Sector General Permit (MSGP) TXR050000, issued August 14, 2016, which authorizes the discharge of stormwater associated with industrial activity. The draft MSGP specifies which facilities must obtain permit coverage, which are eligible for exclusion from permit requirements, which may be automatically authorized, and which may be required to obtain individual permit coverage.

The principal changes to the existing MSGP include:

- A.** Added North American Industrial Classification System (NAICS) and updated a few descriptions of SIC codes in Part II.A.
- B.** Clarified in Part II.C that applications must be submitted electronically, unless the applicant obtains a waiver from electronic reporting.
- C.** Changed provisional coverage to 48 hrs. for paper applications to be consistent with other water quality general permits.
- D.** Part II.C. Added items required on the NOI and the NOC to comply with electronic reporting requirements.
- E.** Part II.C. Added that Delegation of Signatory forms must be submitted using the STEERS online system.
- F.** Part III.A.4. Added that facilities handling pre-production plastic must implement BMPs to eliminate discharges of plastics in stormwater to be consistent with EPA's MSGP.
- G.** Clarified reporting requirements for numeric effluent limitations in Part III.E.6 and added a paragraph in Part III.C. to distinguish between the two types of numeric effluent limitations required: hazardous metals and discharges subject to federal effluent limitations guidelines. Clarified that results of hazardous metals are kept onsite, unless results exceed limits in the MSGP.
- H.** Added a table in Part III.C. providing an overview of regulated discharges subject to federal categorical guidelines. Moved sampling and reporting requirements for those discharges from Part V to this section.
- I.** Modified tables for numeric effluent limitations based on federal effluent guidelines in Part V to be consistent with EPA's MSGP and to clarify which stormwater sources are subject to monitoring requirements.
- J.** Changes to benchmark values and sampling:

Based on Benchmark Monitoring Reports received from permittees during permit years 2017 through 2019, the following changes were made after data analysis:

1. Sector T. Lowered the benchmark value for biochemical oxygen demand (BOD) from 20 mg/L to 15 mg/L.
2. Sector U (SIC codes 2074-2079): Lowered total suspended solids from 100 mg/L to 50 mg/L.

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- K.** Revised Part V for consistency to require rain gauges to be located onsite.
- L.** Added requirements to implement BMPs for off-site vehicle tracking of sediments, generation of dust, dewatering of trenches and excavations, and pumping or dewatering of standing water to Sector J in Part V.
- M.** Made clarifications to Sector L in Part V to be consistent with regulations for solid waste. Added a definition for "Final Cover" and "Intermediate Cover"; replaced "trenches" with "units" and added that the site map also needs to depict inactive solid waste land fill cells or units.
- N.** Added requirements to Sector Y in Part V to implement BMPs for the control of pollutants at rubber, miscellaneous plastic products, and miscellaneous manufacturing facilities to prevent the discharge of pollutants in stormwater to be consistent with EPA's MSGP.

II. Executive Director's Recommendation

The Executive Director has made a preliminary decision that this general permit, if reissued, meets all statutory and regulatory requirements. It is proposed that the general permit be reissued to expire five years from the effective date of August 14, 2021, in accordance with the requirements of 30 TAC §205.5(a).

III. Permit Applicability and Coverage

A. Need for a Permit:

The MSGP authorizes the discharge of stormwater associated with industrial activities into surface water in the state. "stormwater associated with industrial activity" is defined in federal rules at 40 CFR §122.26(b)(14), which TCEQ adopted in state rules at 30 TAC §281.25(a). The draft general permit specifies which facilities may be authorized under the general permit and which must be authorized by an individual permit or alternative general permit.

A facility must have authorization for stormwater discharges if it is defined as an industrial activity by 40 CFR §122.26(b)(14) or designated by the Executive Director. A regulated facility may obtain authorization under the MSGP if coverage is not otherwise prohibited:

1. The SIC code that describes the facility (i.e., the primary SIC code) is specifically listed in Section II.A. of the general permit (see Part II, Section A of the draft permit);
2. The facility conducts an activity described by one or more Industrial Activity Codes that are described in the general permit (See Sectors K, L, O, and T in Part II, Section A. of the draft permit, and Part V, Sections K, L, O, and T);
3. Stormwater discharges from the facility are subject to federal categorical effluent limitations at Title 40 of the CFR Subchapter N (Parts 400-471) (applicable to certain discharges within Sectors A, C, D, E, I, J, O, and S in Part V of the general permit); or

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4. The facility has been designated by the Executive Director as requiring coverage under Sector AD.

Regulated industrial activities are grouped into 30 sectors, A through AD, and each sector consists of a group of similar industrial activities. For this reason, the permit is referred to as the "Multi-Sector General Permit," or MSGP. Most sectors of activity are further divided into more specific subsectors through the use of standard industrial classification (SIC) codes; although some sectors include only one SIC code, and four sectors (K, L, O, and T) are defined only by an industrial activity code (HZ, LF, SE, and TW, respectively). In addition, Sector AD is reserved and will be used to provide permit coverage for facilities that are designated in writing by the Executive Director as needing a permit to control pollution related to stormwater discharges, but that are not described by Sectors A-AC.

Military installations and other federal facilities are also regulated under the MSGP if they have a potential to discharge stormwater that is regulated under the MSGP, even though the facility SIC code may not be listed. For example, the SIC code for a military base is 9711; however, permit coverage is required for any military base that conducts a regulated activity. Other public facilities are regulated under the MSGP if the facility is described in the general permit. For example, if a city operates a general warehousing operation, the city would need to determine the SIC code that best describes the actual facility rather than using the SIC code that describes the entire city.

B. No Exposure:

Facilities regulated under the MSGP may be excluded from permit requirements if there is no exposure of industrial materials or activities to precipitation or runoff. To qualify for this conditional exclusion from permit requirements, the operator of the facility must certify that industrial activities and materials are isolated from precipitation and runoff by storm resistant shelter. The certification must be submitted to the TCEQ on a No Exposure Certification (NEC) form, or other approved form.

Storm-resistant shelters include buildings or structures that have complete roofs and walls, as well as structures with only a top cover but no side coverings, as long as the materials or activities under the structure are not otherwise subject to any run-on and subsequent runoff of stormwater, or mobilization by wind.

Facilities operating under a conditional no-exposure exclusion are subject to inspection by authorized TCEQ personnel to determine compliance with the exclusion. In addition, operators of facilities that qualify for this exclusion and that discharge stormwater to a municipal separate storm sewer system (MS4) must provide a copy of their NEC form to the MS4 operator, even if not required by the MS4.

Exceptions to Storm Resistant Shelters:

1. A facility may be able to obtain a no-exposure exclusion even if the following materials and activities are not completely isolated from precipitation and runoff by a storm resistant shelter:
 - a. drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak ("Sealed"

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means banded or otherwise secured and without operational taps or valves); and

- b. final products that are produced by the facility operator and that are designed for outdoor use (e.g., new cars, outdoor play-sets, lawn equipment), provided the final products have not deteriorated and are not otherwise a potential source of contaminants.

However, the following types of final products would be considered exposed, and not eligible for the exclusion, even if they are designed for outdoor use:

- (1) Final products that could be mobilized by wind or rain into stormwater discharges (e.g., rock salt, wood chips or shavings, compost, plastic pellets, or bricks). Final products that are sheltered from direct precipitation may still be considered exposed if the materials could be carried by wind;
 - (2) final products that may, when exposed, oxidize, deteriorate, leak or otherwise be a potential source of contaminants (e.g., scrap cars, scrap metal); and
 - (3) final products that are actually intermediate products, i.e., that are used in the composition of yet another product (e.g., sheet metal, tubing and paint used in making tractors; plastic pellets; freshly chromed bumpers, creosoted railroad ties, galvanized building panels, galvanized fencing; and unfinished portions of a final product). Even if the intermediate product is "final" for a manufacturer and is intended to be included in a "final product intended for use outdoors," these products are still considered intermediate products for the purpose of the MSGP, and are considered exposed if they are not located in a storm resistant shelter;
- c. pallets used to store, or transport final products intended for outdoor use, if the pallets are new or if they are used and do not contain pollutants;
 - d. vehicles used in material handling that are adequately maintained to prevent leaking fluids;
 - e. lidded dumpsters containing waste materials associated with the regulated activity, provided that the containers are completely covered, no pollutants can drain out, and no material can be lost while loading the contents into a refuse / trash vehicle (excludes trash compactors that handle waste materials associated with the regulated activity, unless the compactor is located indoors or protected by a storm-resistant shelter);
 - f. industrial refuse or trash that is stored in large roll-off containers located under a constructed cover or covered with securely fastened heavy-duty tarps, provided that the tarps are properly maintained and in good condition. If tarps show any signs of beginning to deteriorate, they would need to be replaced before they deteriorate. Tarps must be fastened to the

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waste containers in such a way that they would need to be unfastened and refastened each time waste materials are added;

- g. particulate emissions from roof stacks or vents, provided that they are in compliance with other applicable TCEQ rules and do not contaminate stormwater; and
- h. above-ground storage tanks (ASTs) that are equipped with valves for dispensing materials that support facility operations (e.g., heating oil, propane, butane, chemical feedstocks for facility equipment) or that dispense fuel (e.g., gasoline, diesel, compressed natural gas) for delivery vehicles provided that:
 - (1) the ASTs are located away from vehicle maintenance areas;
 - (2) there are no leaks from pipes, pumps, or other equipment that could come into contact with stormwater; and
 - (3) the ASTs are surrounded by secondary containment (e.g., impervious berm, dike, or concrete retaining structure) to prevent exposure to stormwater runoff in the event of structural failure or leaks.

ASTs that are used to directly fuel vehicles other than delivery vehicles (e.g., ASTs at airports that are used to dispense fuel to airplanes) are considered exposed.

2. Limitations on eligibility for the no-exposure exclusion:

- a. The exclusion from permit requirements is only available facility-wide, and is not available for individual buildings, or individual outfalls. Generally, if any exposed industrial materials or activities exist on any portion of a regulated facility, the facility is not eligible for the no-exposure exclusion.
- b. If a facility with a no-exposure exclusion undergoes any change that results in industrial activities or materials becoming exposed, then the exclusion ceases to apply. In such a case, the operator must obtain coverage under the MSGP or other applicable water quality permit for stormwater discharges before making any changes that will expose industrial activities or materials.
- c. If the TCEQ or EPA determines that a facility's stormwater discharges have a reasonable potential to cause or contribute to a violation of applicable water quality standards, then TCEQ or EPA may deny the no exposure exclusion.

The TCEQ's Small Business and Environmental Assistance (SBEA) Division developed a guidance document, entitled "Conditional No-Exposure Exclusion for Stormwater Runoff (RG-467)," for determining if a facility may claim a conditional no-exposure exclusion from permit requirements when material and activities are not located under storm

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resistant shelter. The guidance document provides additional information on the no-exposure conditional exclusion.

A facility that is able to meet the condition of no exposure is not prohibited from obtaining permit coverage.

C. Automatic Authorization:

The existing MSGP designates certain general warehousing facilities in Sector P, related to Land Transportation and Warehousing, that do not have any vehicle or equipment maintenance, fueling, or rehabilitation activities for automatic coverage. The general permit designates certain facilities in Sector X, related to Printing and Publishing Facilities for coverage, as well as small facilities in other sectors that are located completely inside of a private residence, a shopping mall, or office building that is not exposed to stormwater.

Operators of the following industrial facilities are designated for coverage under the general permit, and are not be required to: prepare a SWP3, submit an NOI for coverage nor an NEC form for a conditional no exposure exclusion, perform any inspections, monitoring, or representative sampling, maintain any discharge-related records, or perform any self-reporting:

1. Facilities described in Part V, Section P, related to General Warehousing and Storage (SIC 4225), that do not have areas for vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication) or equipment cleaning activities.
2. Facilities described under Part V, Section X, that conduct publishing or design without printing.
3. Regulated facilities described in Part II, Section A, where the entire industrial activity is performed completely inside of a residential home, a shopping mall, or an office building.

Operators of the above facilities must meet all of the following requirements in order to retain the automatic authorization option and exception from permitting requirements, and must apply for coverage if any of the requirements are not met:

1. The industrial activity must not include a regulated industrial activity code (HZ, LF, SE, or TW);
2. The industrial activity must be conducted completely within fully enclosed building, such as a garage, an office building, or a retail shopping mall;
3. The regulated industrial activity must not be exposed to stormwater; and
4. The facility operator must comply with the MSGP's Standard Permit Conditions, except that references to submittal of an NOI or an NEC form are not applicable.

If the Executive Director determines that additional controls are required other than those listed above, or if there is a concern regarding the discharge of elevated levels of pollutants, then the TCEQ may require a facility otherwise eligible for automatic authorization to obtain coverage and meet all permit conditions through submittal of an NOI or an individual permit application.

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This provision is appropriate for these types of facilities, because they typically operate in such a way that industrial materials are not exposed to stormwater, and stormwater discharges are not expected to contain pollutants of concern. Facilities included under this provision of the permit are expected to contribute less pollutant loading than other facilities and it is appropriate for the TCEQ to automatically authorize these facilities. These facilities are hereby notified that they are regulated by the general permit even though they have not filed an NOI, in accordance with federal rules at 40 CFR §122.28(b)(2)(vi), and as adopted by TCEQ at 30 TAC §205.7. However, the TCEQ also recognizes that activities may occur at the site that do cause a water quality concern, in which case the TCEQ may require a facility otherwise eligible for automatic authorization to obtain coverage and meet all permit conditions through submittal of an NOI or an individual permit application.

A facility that is able to meet the requirements for automatic authorization would not be prohibited from obtaining permit coverage or a conditional no exposure exclusion by completing the NEC (based on having no exposure) or NOI application process for coverage.

- D.** Industrial facilities that qualify for coverage under the general permit may discharge the following non-stormwater discharges through outfalls identified in the SWP3, according to the requirements of the general permit:
1. discharges from emergency firefighting activities and uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated, and discharges are not expected to adversely affect aquatic life);
 2. potable water sources (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated, and discharges are not expected to adversely affect aquatic life);
 3. lawn watering and similar irrigation drainage, provided that all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
 4. water from the routine external washing of buildings, conducted without the use of detergents or other chemicals;
 5. water from the routine washing of pavement conducted without the use of detergents or other chemicals and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed);
 6. uncontaminated air conditioner condensate, compressor condensate, and steam condensate, and condensate from the outside storage of refrigerated gases or liquids;
 7. water from foundation or footing drains where flows are not contaminated with pollutants, such as process materials, solvents, and other pollutants;
 8. uncontaminated water used for dust suppression (excludes reclaimed or reuse water used for dust suppression);
 9. springs and other uncontaminated ground water;

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10. incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, excluding intentional discharges of utility wastewater from the cooling tower (e.g., cooling tower blowdown); and
11. other allowable non-stormwater discharges specifically listed in individual sections of Part V of the MSGP.

The purpose of providing the list of approved non-stormwater discharges is to clarify that certain discharges that may occur during normal operations of an industrial facility or a commercial facility, and these discharges do not require additional permit coverage. Inclusion of this list in the draft general permit is not meant to prohibit the above discharges that would otherwise be allowed without a TPDES permit. In addition, a facility that has obtained a conditional exclusion from permit requirements based on no exposure may discharge the above non-stormwater flows provided they are not causing or contributing to contamination of water quality.

- E.** The following stormwater discharges are not eligible for general permit coverage:
1. Discharges prohibited by 30 TAC Chapter 311 (relating to Watershed Protection) and 30 TAC Chapter 213 (relating to the Edwards Aquifer).
 2. Discharges of the constituent(s) of concern to an impaired water body for which there is a TMDL implementation plan; however, the discharge may be eligible if it is consistent with the approved TMDL and the implementation plan. The TCEQ may amend the general permit or develop a separate general permit for discharges to these water bodies. For discharges not eligible for coverage under this permit, the discharger must apply for and receive an individual or other applicable general permit prior to discharging.
 3. Discharges from facilities that are regulated by the Railroad Commission (RRC) of Texas, including crude oil and natural gas facilities; except that the TCEQ regulates stormwater discharges from petroleum refineries, refined produce pipelines, and oil and gas field services activities that occur at a corporate headquarters or other similar base of operations, as described in the general permit. Additional information on which facilities the TCEQ regulates may be found in the Memorandum of Understanding (MOU) between the TCEQ and the RRC, 16 TAC §3.30.
 4. Discharges that the TCEQ determines is causing or contributing to a receiving water not maintaining its existing uses.
 5. Discharges that the TCEQ determines would adversely affect a listed endangered or threatened species or its critical habitat. Federal requirements related to endangered species apply to all TPDES permitted activities, and site-specific controls may be required via an individual stormwater permit to ensure that protection of endangered species is achieved.
 6. Contact stormwater from certain facilities, as specifically described in the relevant sections of Part V of the MSGP, related to sector-specific requirements.
- F.** Facilities that dispose of stormwater by any of the following practices would not be required to obtain coverage under the MSGP nor under an individual permit:

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1. Recycling of the stormwater with no resulting discharge into surface water in the state;
2. Pumping and hauling of the stormwater to an authorized disposal facility;
3. Discharge of the stormwater to a publicly owned treatment works (POTW);
4. Underground injection of the stormwater in accordance with 30 TAC Chapter 331;
5. Discharge to above-ground storage tanks (ASTs) with no resulting discharge into surface water in the state; or
6. Containment of all stormwater within property boundaries, with no potential to discharge into surface water in the state, either during or as the result of any storm event.

The operator of the industrial activity may be required to demonstrate, using engineering calculations or other appropriate methods, that no discharge would occur from the site as a result of any storm event(s).

IV. Permit Conditions and Effluent Limitations

A. Numeric Effluent Limitations (Industry-Specific):

1. Federal Effluent Guidelines and Standards: The MSGP includes numeric effluent limits for stormwater discharges from industrial facilities as described in EPA's effluent guidelines and standards, or effluent limitations guidelines (ELGs), in 40 Code of Federal Regulations (CFR), Subchapter N (Chapters 400-471). These discharges are also required to submit DMRs on an annual basis, consistent with federal rules at 40 CFR §122.44 (i)(3), as adopted by reference in 30 TAC §281.25.

The following industrial sectors include numeric limits based on these ELGs, and include a sampling frequency of once per year (unless otherwise described below). For pollutants with a daily average or monthly average limit, the "average" limit only applies when more than one sample is collected and analyzed in a calendar month.

- a. Sector A, Timber Products Facilities: 40 CFR Part 429, Subpart I (40 CFR §429.103), *Timber Products Processing Point Source Category, Wet Storage Subcategory*:

Table 1. Effluent Limitations for Discharges of Wet Decking Water

Pollutant	Limitations (mg/L)
Debris	No Discharge*
pH	6 – 9 standard (std) units

*Debris includes woody material that will not pass through a one-inch diameter round opening.

- b. Sector C, Chemical and Allied Products Manufacturing Facilities: 40 CFR Part 418, Subpart A (40 CFR §418.13), *Fertilizer Manufacturing Point Source Category, Phosphate Subcategory*

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Table 2. Effluent Limitations for Discharges of Contact Stormwater from Facilities that Manufacture Phosphatic Fertilizers

Pollutant	Daily Average Limitations (mg/L)	Daily Maximum Limitations (mg/L)
Phosphorus (as P)	35	105
Fluoride	25	75

- c. Sector D, Asphalt Paving and Roofing Materials and Lubricant Manufacturing Facilities: 40 CFR Part 443, Subpart A (40 CFR §443.13), *Paving and Roofing Materials (Tars and Asphalt) Point Source Category, Asphalt Emulsion Subcategory*

Table 3. Effluent Limitations for Discharges of Stormwater Runoff from Facilities that Produce Asphalt Paving and Roofing Emulsions

Pollutant	Daily Average Limitations (mg/L)	Daily Maximum Limitations (mg/L)
Total Suspended Solids (TSS)	15	23
Oil and Grease	10	15
pH	6 – 9 (std) units	6 – 9 (std) units

- d. Sector E, Glass, Clay, Cement Concrete, and Gypsum Product Manufacturing Facilities: 40 CFR Part 411, Subpart C (40 CFR §411.32), *Cement Manufacturing Point Source Category, Materials Storage Piles Runoff Subcategory*

Table 4. Effluent Limitations for Discharges of Stormwater Runoff from Material Storage Piles from Facilities that Manufacture Cement

Pollutant	Daily Maximum Limitations (mg/L)
TSS	50
pH	6 – 9 (std) units

- e. Sector J, Mineral Mining and Processing Facilities: 40 CFR Part 436, Subparts B, C, and D (40 CFR §§436.22, 436.32, and 436.42), *Mineral Mining and Processing Point Source Category: Crushed Stone Subcategory, Construction Sand and Gravel Subcategory, and Industrial Sand Subcategory*

Table 5. Effluent Limitations for Discharges of Stormwater and Ground Water Seepage from Mine Dewatering Activities at Construction Sand and Gravel, Industrial Sand, and Crushed Stone Mining Facilities

Pollutant	Daily Average Limitations (mg/L)	Daily Maximum Limitations (mg/L)
TSS	25	45
pH	6 – 9 (std) units	6 – 9 (std) units

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- f. Sector O, Steam Electric Generating Facilities: 40 CFR Part 423 [§§423.12(b)(1), (9) and (10)], *Steam Electric Power Generating Point Source Category*

Table 6. Effluent Limitations for Facilities Discharging Coal Pile Runoff

Pollutant	Daily Maximum Limitations (mg/L)
TSS	50
pH	6 – 9 (std) units

- g. Sector S, Air Transportation: 40 CFR Part 449, Subpart A (§§ 449.1 - 449.20), *Airport Deicing Point Source Category*, and Subpart B, Appendix to Part 449, *Sampling Protocol for Soluble COD*.

Table 7. Effluent Limitations for Discharges of Stormwater Runoff from Airport Deicing Activities

Pollutant	Daily Maximum Limitations (mg/L)
COD	271
Ammonia-Nitrogen	14.7

2. Other Numeric Effluent Limitations (Hazardous Metals):

- a. Effluent limits for hazardous metals are continued from the existing permit, and are consistent with TCEQ rules at 30 TAC Chapter 319, Subchapter B (related to Hazardous Metals). The monitoring frequency is once per year; therefore, only the daily maximum effluent limitations were included in the draft permit:

Table 8. Effluent limits for hazardous metals discharging into inland and tidal waters

Parameter (Total)	Discharges to Inland Waters (mg/l)	Discharges to Tidal Waters (mg/l)
Arsenic	0.3	0.3
Barium	4.0	4.0
Cadmium	0.2	0.3
Chromium	5.0	5.0
Copper	2.0	2.0
Lead	1.5	1.5
Manganese	3.0	3.0
Mercury	0.01	0.01
Nickel	3.0	3.0
Selenium	0.2	0.3
Silver	0.2	0.2
Zinc	6.0	6.0

- b. The renewed permit continues the reporting requirement for facilities that discharge in excess of the following numeric effluent limitations for

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hazardous metals to submit DMRs on an annual basis. This requirement is according to 40 CFR §122.44 (i)(5), as adopted by reference by TCEQ, and would apply to facilities described in the permit under any of the sectors of industrial activity.

B. Stormwater Pollution Prevention Plan (SWP3, or plan):

The draft general permit continues the existing requirement to develop and implement a SWP3 to control discharges of stormwater associated with industrial activities, in accordance with NPDES stormwater regulations at 40 CFR §122.26 (b)(14)(viii), and as adopted by reference in 30 TAC §281.25(a)(4) (relating to Additional Facilities and Projects for which TPDES Permits are Required). The draft permit includes specific provisions that must be incorporated into facility's SWP3. These include, at a minimum, the following elements:

1. Establish a Stormwater Pollution Prevention Team
2. Inspect facility for non-stormwater flows (e.g., process wastewater, vehicle or equipment cleaning water, contact or noncontact cooling water, boiler blowdown, cooling tower blowdown, hydrostatic testing water, groundwater.)
3. Describe potential pollutant sources:
 - (a) List an inventory of exposed materials;
 - (b) Develop a narrative description of activities and sources that may contribute to stormwater pollution;
 - (c) Develop a site map;
 - (d) List historical spills and leaks (including reportable quantity (RQ) spills required by 30 TAC Chapter 327), and keep log of any additional spills and leaks; and
 - (e) Summarize all sampling data.
4. Describe pollution prevention measures and controls, including:
 - (a) Good Housekeeping;
 - (b) Spill Prevention and Response;
 - (c) Erosion Control;
 - (d) Maintenance program for structural controls;
 - (e) BMPs used to reduce pollutants in runoff;
 - (f) Employee training and education programs;
 - (g) Monitoring activities; and
 - (h) Records of above.

C. Additional Monitoring and Reporting: The draft general permit continues the following monitoring requirements from the existing general permit, with revisions as noted:

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1. **Benchmark Monitoring and Reporting:** The draft permit continues the requirement for certain industrial sectors to collect discharge samples for comparison to benchmark levels. The draft permit revises the levels of two benchmark parameters: Total suspended solids (TSS) and biochemical oxygen demand (BOD₅). These changes are listed below (paragraph IV.C.1.(c) of this fact sheet) and are further described in Appendix A of this fact sheet:

(a) The draft permit requires sampling once per six months for the first two years of the permit term. Monitoring requirements begin in the first full six-month period, January 1st through June 30th or July 1st through December 31st. The permittee would not be required to conduct benchmark monitoring during the third and fourth year, if the results of the first two year's monitoring are below benchmark levels. Results of monitoring for the first and second reporting years would be reported to the TCEQ; and results of monitoring for the third and fourth years would be retained on site.

If sampling is performed for a pollutant in which a waiver was obtained, and the result for that pollutant is greater than the benchmark level, then the waiver ceases for that pollutant. In addition, any waivers obtained from benchmark sampling do not affect sampling that is required to comply with numeric effluent limits in the permit.

(b) The draft permit includes revised benchmark levels for the following pollutants, which were established based on data evaluated during the 2017 through 2019 calendar years:

Table 9. Benchmark Levels for Pollutants Evaluated in 2011 - 2014

Benchmark Parameter	2016 MSGP (mg/L)	Proposed 2021 (mg/L)
TSS	100	50, for selected activities
Biochemical Oxygen Demand (BOD ₅)	20	15

(c) **Sector-Specific Changes to Benchmark Parameters:**

Sector T (Treatment Works): Biochemical Oxygen Demand (BOD₅) lowered from 20 to 15 mg/L for activity codes (TW).

Sector U (Food and Kindred Products Facilities): TSS lowered from 100 to 50 mg/L for SIC codes (2074-2079).

The above changes to benchmark sampling are further described and explained in Part X.C. and Appendix A of this fact sheet.

2. **Quarterly visual monitoring of discharges:** The draft permit continues the existing requirement to conduct visual sampling of the discharge at least once per quarter and adds that visual sampling is required only during normal operating hours.

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3. Quarterly inspections of structural controls: The draft permit continues the existing requirement to inspect the structural controls used to control the discharge of pollutants in stormwater.
4. Annual Comprehensive Site Compliance Investigation and Report: The draft permit continues the existing requirement to perform a comprehensive site compliance evaluation and to prepare a report detailing the findings.

V. Changes From Existing General Permit:

A. The changes to the permit are listed below:

1. Part I. Removed the term “cooling ponds” from the definition of Waters of the United States, since cooling ponds are no longer defined in 40 CFR § 423.11.
2. Part II.C.2. Switched paragraph (1) and (2) since paper NOIs and NEC are no longer allowed, unless the applicant obtains a waiver from electronic reporting.
3. Part II.C.2. Changed provisional coverage to 48 hrs. for paper applications to be consistent with other water quality general permits.
4. Part II.C.3. Added that permittees are required to post a sign or other notice of permit coverage.
5. Part II.C.5. Added that the following items also are needed on the NOI: location of outfall(s), industrial activities subject to federal effluent limitation guidelines, discharging pollutant(s) of concern, and waiver criteria from monitoring hazardous metals.
6. Part II.C.6. Switched paragraph (1) and (2) since paper NOCs are no longer allowed, unless the applicant obtains a waiver from electronic reporting.
7. Part II.C.6. Added that the NOC, submitted either electronically or by paper, must be provided to the MS4 operator.
8. Part II.C.6.(e). Added new items that would require an NOC: adding or removing activities with federal effluent limitations; adding, removing, or changing the location of an outfall; stopping submittal of monitoring results of benchmarks and hazardous metals; and changing the status of a facility.
9. Part II.C.6.(f). Added that Delegation of Signatory forms must be submitted to TCEQ by using the STEERS online system.
10. Part II.C.7.(b). Added that a copy of the NOT, submitted either electronically or by paper, must be sent to the MS4, if required by the MS4.
11. Part III.A.1. Added that an “updated” SWP3 must be developed and implemented before submitting an NOI.
12. Part III.A.4.(c). Added that the SWP3 of facilities handling pre-production plastic must contain good housekeeping measures and BMPs to eliminate plastic in stormwater.

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13. Part III.B.5. Added that a copy of the delegation of authority notification to TCEQ, submitted either electronically or by paper must be included in the SWP3.
14. Part III.A.3.(c). Added that the general location map, for sites with large plots of lands where no industrial activity is conducted needs to depict those areas, and that no outfall(s) need to be assigned for those areas.
15. Part III.A.3.(d). Added that the Drainage Area Site Map needs to include latitude and longitude on outfalls.
16. Part III.A.3.(d). Added that the SWP3's list of spills and leaks must include those "that could contribute pollutants to stormwater discharges."
17. Part III.A.5(3). Added that the formal notification to TCEQ for delegation of signatory must be done through STEERS or by paper on a Delegation of Signatories form. A copy of the notification must be included in the SWP3.
18. Part III.A.5.(11). Added that documentation of the criteria for claiming a waiver from monitoring hazardous metals must be included in the SWP3.
19. Part III.B.4.(e). Added that reporting for the pollutant of concern must be done online using NetDMR, unless the permittee qualifies for an electronic reporting waiver.
20. Part III.C. Added a paragraph to distinguish between the two types of numeric effluent limitations required: hazardous metals and discharges subject to federal effluent limitations guidelines. Clarified that results of hazardous metals are kept onsite, unless results exceed limits in the general permit, in which case they are reported to TCEQ.
21. Part III.C.1.(b). Clarified that reporting of hazardous metals is done electronically using TCEQ's online system NetDMR, unless the permittee qualifies for an electronic reporting waiver.
22. Part III.C.1.(d). Added that a copy of the criteria for claiming a waiver from monitoring hazardous metals must be included in the SWP3.
23. Part III.C.2. Added Table 3. showing regulated discharges subject to federal categorical guidelines and moved sampling and reporting requirements for those discharges from Part V to this section.
24. Part III.D.4.(a). Added that the SWP3 needs to include a narrative for the nature of adverse condition and rain gauge reading(s). Also added that monitoring must be conducted at the next representative rain event or in the next monitoring period, whichever comes first.
25. Part III.D.4.(b). Added that the permittee must submit an NOC to notify TCEQ about changing status of an industrial facility.
26. Part III.D.4.(c). Added a paragraph "Lack of Qualifying Storm Event" clarifying that monitoring is temporarily suspended if there was a lack a qualifying storm event.
27. Part III.E.6.(a).(2). Added that DMRs for hazardous metals are only submitted to TCEQ when results exceeds permit limits.

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28. Part III.E.6.(a).(4). Replaced the word “non-compliance” with “Exceedance.”
29. Part III.E.6.(b).(2). Replaced the word “deviates” with “exceeds.”
30. Part III.E.6.(b).(3). Removed language in paragraphs (a) and (b) because it is no longer necessary to send DMRs to the regional offices since results can be retrieved on NetDMRs; also those requirements were already described in Part III.E. 6.(a).
31. Part IV. Revised the first paragraph to clarify that benchmark monitoring data are used to determine overall effectiveness of BMPs and removed the previous Table 3. “List of sectors with monitoring requirements, benchmark parameters, and benchmark levels.”
32. Part IV.B.1.(c). Added that monitoring is not required in year five of the permit cycle since it does not have two full six months monitoring periods.
33. Part IV.B.2(a). Added that results must be submitted online using the NetDMR system unless the permittee qualifies for an electronic reporting waiver.
34. Part V. Sectors A, C, D, E, J, O, and S. Modified tables for numeric effluent limitations based on federal effluent guidelines.
35. Part V. Sectors E and J, O Revised the language to require the rain gauge to be located onsite.
36. Part V. Section J.9.(d). Added requirements to implement BMPs for off-site vehicle tracking of sediments, generation of dust, dewatering of trenches and excavations, and pumping or dewatering of standing water.
37. Part V. Section L.(2). Added definitions for “Final Cover” and “Intermediate Cover.”
38. Part V. Section L.5.(d).1. Replaced “trenches” with “units” and added that the site map also must depict inactive solid waste land fill cells or units.
39. Part V. Section L.(5).(e).4. Replaced “Interim” with “Intermediate.”
40. Part V. Section L.(5).(b). Removed examples of temporary stabilization measures.
41. Part V. Section T.5. Revised the benchmark value to 15 mg/L.
42. Part V. Section U.4. Revised the benchmark value to 50 mg/L.
43. Part V. Section Y.2. Added a requirement to implement BMPs for the control of pollutants in stormwater at rubber, miscellaneous plastic products and miscellaneous manufacturing facilities. Required that plastic product manufacturing facilities implement a containment system to trap plastic particles.
44. Made additional changes throughout the permit that help to clarify the intent of the general permit.

VI. Addresses and Contact Information

Questions or informal comments concerning this draft general permit should be directed to:

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MC 148
TCEQ, Stormwater Team Leader
Wastewater Permitting Section
P.O. Box 13087
Austin, Texas 78711-3087
(512) 239- 4671
swgp@tceq.texas.gov

Comments regarding this general permit during the public comment period must be submitted either by mail to the following address, by fax followed by mail, or electronically as described below:

By Mail:

MC 105
Chief Clerk's Office (CCO)
P.O. Box 13087
Austin, Texas 78711-3087

By facsimile (fax): (512) 239-3311*

*Fax must be followed by hard copy in mail to CCO at address above within three days of fax date.

Electronically: <http://www14.tceq.texas.gov/epic/eComment/>

Questions Regarding Public Comments Should Be Directed to CCO: (512) 239-3300

Supplementary information on this fact sheet is organized as follows:

- VII. Legal Basis
- VIII. Regulatory Background
- IX. Permit Coverage
- X. Technology-based Requirements
- XI. Water Quality-based Requirements
- XII. Monitoring
- XIII. Procedures for Final Decision
- XIV. Administrative Record

VII. Legal Basis

Section (§) 26.121 of the Texas Water Code (TWC) makes it unlawful to discharge pollutants into or adjacent to water in the state in the absence of authorizing permits. TWC §26.027 authorizes the commission to issue permits and amendments to permits for the discharge of waste or pollutants into or adjacent to water in the state. TWC §26.040 provides the commission with authority to amend rules adopted under §26.040 prior to amendment of the statute by House Bill (H.B.) 1542 in 1997, and to authorize waste discharges by general permit. On September 14,

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1998, the TCEQ received authority from the U.S. Environmental Protection Agency (EPA) to administer the Texas Pollutant Discharge Elimination System (TPDES). The TCEQ and the EPA have signed a Memorandum of Agreement (MOA) that authorizes the administration of the TPDES program by the TCEQ as it applies to the State of Texas.

Clean Water Act (CWA) Sections 301, 304, and 401 (33 United States Code 1331, 1314 and 1341) include provisions which state that TPDES permits must include effluent limitations requiring authorized discharges to: (1) meet standards reflecting levels of technological capability, (2) comply with EPA-approved state water quality standards and (3) comply with other state requirements adopted under authority retained by states under CWA §510, 33 U.S.C. §1370.

Two types of technology-based effluent limitations must be included in the proposed general permit. Regarding conventional pollutants, CWA §301 (b)(1)(E) requires effluent limitations based on “best conventional pollution control technology” (BCT). With regard to nonconventional and toxic pollutants, CWA §301(b)(2)(A), (C), and (D) require effluent limitations based on “best available pollution control technology economically achievable” (BAT), a standard which generally represents the best performing existing technology in an industrial category or subcategory. BAT and BCT effluent limitations may never be less stringent than corresponding effluent limitations based on best practicable control technology (BPT), a standard applicable to similar discharges before March 31, 1989 under CWA §301(b)(1)(A).

VIII. Regulatory Background

The 1972 amendments to the Federal Water Pollution Control Act, later referred to as the Clean Water Act (CWA), prohibit the discharge of any pollutant to navigable waters of the United States from a point source unless the discharge is authorized by a National Pollutant Discharge Elimination System (NPDES) permit. Efforts to improve water quality under the NPDES program traditionally have focused on reducing pollutants in industrial process wastewater and municipal sewage treatment plant discharges. Over time, it has become evident that more diffuse sources of water pollution, such as stormwater runoff from industrial facilities, construction sites, and municipal separate storm sewer systems (MS4s) are also significant contributors to water quality problems.

EPA promulgated rules establishing requirements for discharges of stormwater runoff associated with industrial activities, at 40 CFR §122.26. These rules were subsequently adopted by reference in TCEQ rules at 30 TAC §281.25(a) and are being implemented in part through reissuance of the MSGP.

TCEQ received authority to administer the TPDES permit program in Texas, for those discharges under the regulatory authority of the agency, on September 14, 1998. Under the MOA between the two agencies, EPA agreed to continue to administer the multi-sector general permit (MSGP) permit until the September 29, 2000 expiration date. The original TPDES permit was issued on August 20, 2001, and included the Phase II rules for the NPDES stormwater permit program were which were finalized on December 8, 1999. The existing MSGP, which replaced the 2008 TPDES MSGP, was issued August 14, 2011 and expires on August 14, 2016. The renewed MSGP would continue the authorization for industrial facilities in Texas for five years from the effective date of the permit.

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IX. Permit Coverage

A. Scope of Permit Coverage

This general permit applies to discharges of stormwater runoff associated with industrial activity, and certain non-stormwater discharges, into surface water in the state. The general permit specifies which particular industrial facilities are eligible for authorization by the general permit, which must be authorized by a separate permit, and the specific conditions that must be met in order to receive an exclusion from requirements to develop a SWP3 and to submit a notice of intent. The proposed general permit would provide authority for any facility currently authorized under the TPDES permit to continue to discharge. The general permit would also continue the requirements for certain oil exploration, production, processing, or treatment operations that are controlled under the authority of the Railroad Commission of Texas (RCT) to apply to EPA and the RCT for authorization to discharge stormwater runoff associated with industrial activities.

Permit applicability is based on the facility's primary SIC code, or by a listed Industrial Activity Code, and includes stormwater discharges regulated in federal guidelines in 40 CFR Parts 400-471 (effluent limitations guidelines, or ELGs). Industrial facilities that are required to obtain authorization to discharge stormwater runoff are grouped into 30 sectors, Sectors A through AD. A facility's SIC Code is the SIC code which best describes the main activity occurring at the site. EPA provided information regarding the primary SIC code by referencing the SIC Manual. According to the EPA, the SIC Manual recommends using the value of receipts or revenues to determine the primary activity. If such information is not available for a particular facility, then number of employees or production rate for each process may be compared. The operation that generates the most revenue or employs the most personnel is the operation in which the facility is primarily engaged. In the case of industrial activity codes, a facility is subject to permitting requirements regardless of whether the Industrial Activity Code describes the primary activity or only a minor activity occurring at the site. If a facility conducts secondary activities that are described by an SIC code that is listed in the table, then discharges from these additional activities are described as co-located activities and must be authorized. Stormwater discharges from co-located industrial activities may be authorized under the general permit, provided that the operator complies with all of the sector specific requirements defined in the general permit for each of the co-located activities. Co-located activities are only required to be permitted at a facility that is already required to be regulated based on the primary SIC code or the Industrial Activity Code.

The following industrial activities are proposed to be eligible for authorization under the draft general permit:

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SECTOR A: TIMBER PRODUCTS

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2411	Logging	113310	Logging
2421	General Sawmills and Planing Mills	321113	Sawmills
		321912	Cut Stock, Resawing Lumber, and Planing
		321918	Other Millwork (including Flooring)
		321920	Wood Container and Pallet Manufacturing
		321999	All Other Miscellaneous Wood Product Manufacturing
2426	Hardwood Dimension and Flooring Mills	321113	Sawmills
		321912	Cut Stock, Resawing Lumber, and Planing
		321918	Other Millwork (including Flooring)
		337215	Showcase, Partition, Shelving, and Locker Manufacturing
2429	Special Product Sawmills, Not Elsewhere Classified	321113	Sawmills
		321920	Wood Container and Pallet Manufacturing
		321999	All Other Miscellaneous Wood Product Manufacturing
2431	Millwork	321911	Wood Window and Door Manufacturing
		321918	Other Millwork (including Flooring)
2435	Hardwood Veneer and Plywood	321211	Hardwood Veneer and Plywood Manufacturing
2436	Softwood Veneer and Plywood	321212	Softwood Veneer and Plywood Manufacturing
2439	Structural Wood Members, Not Elsewhere Classified	321213	Engineered Wood Member (except Truss) Manufacturing
		321214	Truss Manufacturing
2441	Nailed and Lock Corner Wood Boxes and Shook	321920	Wood Container and Pallet Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2448	Wood Pallets and Skids	321920	Wood Container and Pallet Manufacturing
2449	Wood Containers, Not Elsewhere Classified	321920	Wood Container and Pallet Manufacturing
2451	Mobile Homes	321991	Manufactured Home (Mobile Home) Manufacturing
2452	Prefabricated Wood Buildings and Components	321992	Prefabricated Wood Building Manufacturing
2491	Wood Preserving	321114	Wood Preservation
2493	Reconstituted Wood Products	321219	Reconstituted Wood Product Manufacturing
2499	Wood Products, Not Elsewhere Classified	321920	Wood Container and Pallet Manufacturing
		321999	All Other Miscellaneous Wood Product Manufacturing
		333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
		337125	Household Furniture (except Wood and Metal) Manufacturing
		339113	Surgical Appliance and Supplies Manufacturing
		339999	All Other Miscellaneous Manufacturing

SECTOR B: PAPER AND ALLIED PRODUCTS

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2611	Pulp Mills	322110	Pulp Mills
		322121	Paper (except Newsprint) Mills
		322122	Newsprint Mills
		322130	Paperboard Mills

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2621	Paper Mills	322121	Paper (except Newsprint) Mills
		322122	Newsprint Mills
2631	Paperboard Mills	322130	Paperboard Mills
2652	Setup Paperboard Boxes	322219	Other Paperboard Container Manufacturing
2653	Corrugated and Solid Fiber Boxes	322211	Corrugated and Solid Fiber Box Manufacturing
2655	Fiber Cans, Tubes, Drums, and Similar Products	322219	Other Paperboard Container Manufacturing
2656	Sanitary Food Containers, Except Folding	322219	Other Paperboard Container Manufacturing
2657	Folding Paperboard Boxes, Including Sanitary	322212	Folding Paperboard Box Manufacturing
2671	Packaging Paper and Plastics Film, Coated and Laminated	322220	Paper Bag and Coated and Treated Paper Manufacturing
		326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing
2672	Coated and Laminated Paper, Not Elsewhere Classified	322220	Paper Bag and Coated and Treated Paper Manufacturing
2673	Plastics, Foil, and Coated Paper Bags	322220	Paper Bag and Coated and Treated Paper Manufacturing
		326111	Plastics Bag and Pouch Manufacturing
2674	Uncoated Paper and Multiwall Bags	322220	Paper Bag and Coated and Treated Paper Manufacturing
2675	Die-Cut Paper and Paperboard and Cardboard	322220	Paper Bag and Coated and Treated Paper Manufacturing
		322230	Stationery Product Manufacturing
		322299	All Other Converted Paper Product Manufacturing
2676	Sanitary Paper Products	322291	Sanitary Paper Product Manufacturing
2677	Envelopes	322230	Stationery Product Manufacturing
2678	Stationery, Tablets, and Related Products	322230	Stationery Product Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2679	Converted Paper and Paperboard Products, Not Elsewhere Classified	322211	Corrugated and Solid Fiber Box Manufacturing
		322220	Paper Bag and Coated and Treated Paper Manufacturing
		322230	Stationery Product Manufacturing
		322299	All Other Converted Paper Product Manufacturing

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SECTOR C: CHEMICAL AND ALLIED PRODUCTS

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2812	Alkalies and Chlorine	325180	Other Basic Inorganic Chemical Manufacturing
2813	Industrial Gases	325120	Industrial Gas Manufacturing
2816	Inorganic Pigments	325130	Synthetic Dye and Pigment Manufacturing
		325180	Other Basic Inorganic Chemical Manufacturing
2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers	325211	Plastics Material and Resin Manufacturing
2822	Synthetic Rubber (Vulcanizable Elastomers)	325212	Synthetic Rubber Manufacturing
2823	Cellulosic Manmade Fibers	325220	Artificial and Synthetic Fibers and Filaments Manufacturing
2824	Manmade Organic Fibers, Except Cellulosic	325220	Artificial and Synthetic Fibers and Filaments Manufacturing
2833	Medicinal Chemicals and Botanical Products	325411	Medicinal and Botanical Manufacturing
2834	Pharmaceutical Preparations	325412	Pharmaceutical Preparation Manufacturing
2835	In Vitro and In Vivo Diagnostic Substances	325412	Pharmaceutical Preparation Manufacturing
		325413	In Vitro Diagnostic Substance Manufacturing
2836	Biological Products, Except Diagnostic Substances	325414	Biological Product (except Diagnostic) Manufacturing
2841	Soap and Other Detergents, Except Specialty Cleaners	325611	Soap and Other Detergent Manufacturing
2842	Specialty Cleaning, Polishing, and Sanitation Preparations	325612	Polish and Other Sanitation Good Manufacturing
2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants	325613	Surface Active Agent Manufacturing
2844	Perfumes, Cosmetics, and Other Toilet Preparations	325611	Soap and Other Detergent Manufacturing

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		325620	Toilet Preparation Manufacturing
2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products	325510	Paint and Coating Manufacturing
2861	Gum and Wood Chemicals	325194	Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing
2865	Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments	325110	Petrochemical Manufacturing
		325130	Synthetic Dye and Pigment Manufacturing
		325194	Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing
2869	Industrial Organic Chemicals, Not Elsewhere Classified	325110	Petrochemical Manufacturing
		325120	Industrial Gas Manufacturing
		325180	Other Basic Inorganic Chemical Manufacturing
		325193	Ethyl Alcohol Manufacturing
		325194	Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing
		325199	All Other Basic Organic Chemical Manufacturing
		325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing
2873	Nitrogenous Fertilizers	325311	Nitrogenous Fertilizer Manufacturing
2874	Phosphatic Fertilizers	325312	Phosphatic Fertilizer Manufacturing
2875	Fertilizers, Mixing Only	325314	Fertilizer (Mixing Only) Manufacturing
2879	Pesticides and Agricultural Chemicals, Not Elsewhere Classified	325320	Pesticides and Other Agricultural Chemical Manufacturing

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2891	Adhesives and Sealants	325520	Adhesive Manufacturing
2892	Explosives	325920	Explosives Manufacturing
2893	Printing Ink	325910	Printing Ink Manufacturing
2895	Carbon Black	325180	Other Basic Inorganic Chemical Manufacturing
2899	Chemicals and Chemical Preparations, Not Elsewhere Classified	311942	Spice and Extract Manufacturing
		325199	All Other Basic Organic Chemical Manufacturing
		325510	Paint and Coating Manufacturing
		325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing
2911	Petroleum Refining	324110	Petroleum Refineries
3952	Limited to List of Inks and Paints including: China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting; Artist's Paints, and Artist's Watercolors	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing
		339940	Office Supplies (except Paper) Manufacturing

SECTOR D: ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2951	Asphalt Paving Mixtures and Blocks	324121	Asphalt Paving Mixture and Block Manufacturing
2952	Asphalt Felts and Coatings	324122	Asphalt Shingle and Coating Materials Manufacturing
2992	Lubricating Oils and Greases	324191	Petroleum Lubricating Oil and Grease Manufacturing
2999	Products of Petroleum and Coal, Not Elsewhere Classified	324199	All Other Petroleum and Coal Products Manufacturing

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SECTOR E: GLASS, CLAY, CEMENT, CONCRETE, AND GYPSUM PRODUCTS

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3211	Flat Glass	327211	Flat Glass Manufacturing
3221	Glass Containers	327213	Glass Container Manufacturing
3229	Pressed and Blown Glass and Glassware, Not Elsewhere Classified	327212	Other Pressed and Blown Glass and Glassware Manufacturing
3231	Glass Products, Made of Purchased Glass	327215	Glass Product Manufacturing Made of Purchased Glass
3241	Cement, Hydraulic	327310	Cement Manufacturing
3251	Brick and Structural Clay Tile	327120	Clay Building Material and Refractories Manufacturing
		327331	Concrete Block and Brick Manufacturing
3253	Ceramic Wall and Floor Tile	327120	Clay Building Material and Refractories Manufacturing
3255	Clay Refractories	327120	Clay Building Material and Refractories Manufacturing
3259	Structural Clay Products, Not Elsewhere Classified	327120	Clay Building Material and Refractories Manufacturing
3261	Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories	327110	Pottery, Ceramics, and Plumbing Fixture Manufacturing
3262	Vitreous China Table and Kitchen Articles	327110	Pottery, Ceramics, and Plumbing Fixture Manufacturing
3263	Fine Earthenware (Whiteware) Table and Kitchen Articles	327110	Pottery, Ceramics, and Plumbing Fixture Manufacturing
3264	Porcelain Electrical Supplies	327110	Pottery, Ceramics, and Plumbing Fixture Manufacturing
3269	Pottery Products, Not Elsewhere Classified	327110	Pottery, Ceramics, and Plumbing Fixture Manufacturing
3271	Concrete Block and Brick	327331	Concrete Block and Brick Manufacturing
3272	Concrete Products, Except Block and Brick	327332	Concrete Pipe Manufacturing
		327390	Other Concrete Product Manufacturing
		327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3273	Ready-Mixed Concrete	327320	Ready-Mix Concrete Manufacturing
3274	Lime	327410	Lime Manufacturing
3275	Gypsum Products	327420	Gypsum Product Manufacturing
3281	Cut Stone and Stone Products	327991	Cut Stone and Stone Product Manufacturing
3291	Abrasive Products	327910	Abrasive Product Manufacturing
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
3292	Asbestos Product	327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing
		336340	Motor Vehicle Brake System Manufacturing
		336350	Motor Vehicle Transmission and Power Train Parts Manufacturing
3295	Minerals and Earths, Ground or Otherwise Treated	212324	Kaolin and Ball Clay Mining
		212325	Clay and Ceramic and Refractory Minerals Mining
		212393	Other Chemical and Fertilizer Mineral Mining
		212399	All Other Nonmetallic Mineral Mining
		327992	Ground or Treated Mineral and Earth Manufacturing
3296	Mineral Wool	327993	Mineral Wool Manufacturing
3297	Nonclay Refractories	327120	Clay Building Material and Refractories Manufacturing
3299	Nonmetallic Mineral Products, Not Elsewhere Classified	327110	Pottery, Ceramics, and Plumbing Fixture Manufacturing
		327420	Gypsum Product Manufacturing
		327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing

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SECTOR F: PRIMARY METALS

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3312	Steel Works, Blast Furnaces (including Coke Ovens), and Rolling Mills	324199	All Other Petroleum and Coal Products Manufacturing
		331110	Iron and Steel Mills and Ferroalloy Manufacturing
		331221	Rolled Steel Shape Manufacturing
3313	Electrometallurgical Products, Except Steel	331110	Iron and Steel Mills and Ferroalloy Manufacturing
3315	Steel Wiredrawing and Steel Nails and Spikes	312222	Steel Wire Drawing
		332618	Other Fabricated Wire Product Manufacturing
3316	Cold-Rolled Steel Sheet, Strip, and Bars	331221	Rolled Steel Shape Manufacturing
3317	Steel Pipe and Tubes	331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel
3321	Gray and Ductile Iron Foundries	331511	Iron Foundries
3322	Malleable Iron Foundries	331511	Iron Foundries
3324	Steel Investment Foundries	331512	Steel Investment Foundries
3325	Steel Foundries, Not Elsewhere Classified	331513	Steel Foundries (except Investment)
3331	Primary Smelting and Refining of Copper	331410	Nonferrous Metal (except Aluminum) Smelting and Refining
3334	Primary Production of Aluminum	331313	Alumina Refining and Primary Aluminum Production
3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum	331410	Nonferrous Metal (except Aluminum) Smelting and Refining
3341	Secondary Smelting and Refining of Nonferrous Metals	331314	Secondary Smelting and Alloying of Aluminum
		331420	Copper Rolling, Drawing, Extruding, and Alloying
		331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)
3351	Rolling, Drawing, and Extruding of Copper	331420	Copper Rolling, Drawing, Extruding, and Alloying

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3353	Aluminum Sheet, Plate, and Foil	331315	Aluminum Sheet, Plate, and Foil Manufacturing
3354	Aluminum Extruded Products	331318	Other Aluminum Rolling, Drawing, and Extruding
3355	Aluminum Rolling and Drawing, Not Elsewhere Classified	331318	Other Aluminum Rolling, Drawing, and Extruding
3356	Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum	331491	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding
3357	Drawing and Insulating of Nonferrous Wire	331318	Other Aluminum Rolling, Drawing, and Extruding
		331420	Copper Rolling, Drawing, Extruding, and Alloying
		331491	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding
		335921	Fiber Optic Cable Manufacturing
		335929	Other Communication and Energy Wire Manufacturing
3363	Aluminum Die-Castings	331523	Nonferrous Metal Die-Casting Foundries
3364	Nonferrous Die-Castings, Except Aluminum	331523	Nonferrous Metal Die-Casting Foundries
3365	Aluminum Foundries	331524	Aluminum Foundries (except Die-Casting)
3366	Copper Foundries	331529	Other Nonferrous Metal Foundries (except Die-Casting)
3369	Nonferrous Foundries, Except Aluminum and Copper	331529	Other Nonferrous Metal Foundries (except Die-Casting)
3398	Metal Heat Treating	332811	Metal Heat Treating
3399	Primary Metal Products, Not Elsewhere Classified	331110	Iron and Steel Mills and Ferroalloy Manufacturing
		331221	Rolled Steel Shape Manufacturing
		331314	Secondary Smelting and Alloying of Aluminum
		331420	Copper Rolling, Drawing, Extruding, and Alloying

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)
		332618	Other Fabricated Wire Product Manufacturing
		332813	Electroplating, Plating, Polishing, Anodizing and Coloring

SECTOR G: METAL MINING (ORE MINING AND DRESSING)

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
1011	Iron Ores	212210	Iron Ore Mining
1021	Copper Ores	212230	Copper, Nickel, Lead, and Zinc Mining
1031	Lead and Zinc Ores	212230	Copper, Nickel, Lead, and Zinc Mining
1041	Gold Ores	212221	Gold Ore Mining
1044	Silver Ores	212222	Silver Ore Mining
1061	Ferroalloy Ores, Except Vanadium	212230	Copper, Nickel, Lead, and Zinc Mining
		212299	All Other Metal Ore Mining
1081	Metal Mining Services	213114	Support Activities for Metal Mining
		238910	Site Preparation Contractors
1094	Uranium-Radium-Vanadium Ores	212291	Uranium-Radium-Vanadium Ore Mining
1099	Miscellaneous Metal Ores, Not Elsewhere Classified	212299	All Other Metal Ore Mining

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SECTOR H: COAL MINES AND COAL MINING RELATED FACILITIES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
1221	Bituminous Coal and Lignite Surface Mining	212111	Bituminous Coal and Lignite Surface Mining
1222	Bituminous Coal Underground Mining	212112	Bituminous Coal Underground Mining
1231	Anthracite Mining	212113	Anthracite Mining
1241	Coal Mining Services	213113	Support Activities for Coal
		238910	Site Preparation Contractors

SECTOR I: OIL AND GAS EXTRACTION FACILITIES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
<i>Industrial Activities regulated under the EPA Region 6 NPDES Program:</i>			
1311	Crude Petroleum and Natural Gas	211120	Crude Petroleum Extraction
1321	Natural Gas Liquids	211130	Natural Gas Extraction
1381	Drilling Oil and Gas Wells	213111	Drilling Oil and Gas Wells
1382	Oil and Gas Field Exploration Services	213112	Support Activities for Oil and Gas Operations
1389	Oil and Gas Field Services, Not Elsewhere Classified (Applies to activities that occur in the field other than oil field service company "home base" facilities)	213112	Support Activities for Oil and Gas Operations
		237120	Oil and Gas Pipeline and Related Structures Construction
		238910	Site Preparation Contractors
<i>Industrial Activities Regulated under this General Permit:</i>			
1389	Oil and Gas Field Services, Not Elsewhere Classified (Applies to activities that do not occur in the field; those that occur at a company headquarters, permanent offices, or base of operations, or at oil field	No NAICS Code Equivalent	No NAICS Code Equivalent

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
	service company "home base" facilities)		

SECTOR J: MINERAL MINING AND PROCESSING FACILITIES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
1411	Dimension Stone	212311	Dimension Stone Mining and Quarrying
1422	Crushed and Broken Limestone	212312	Crushed and Broken Limestone Mining and Quarrying
1423	Crushed and Broken Granite	212313	Crushed and Broken Granite Mining and Quarrying
1429	Crushed and Broken Stone, Not Elsewhere Classified	212319	Other Crushed and Broken Stone Mining and Quarrying
1442	Construction Sand and Gravel	212321	Construction Sand and Gravel Mining
1446	Industrial Sand	212322	Industrial Sand Mining
1455	Kaolin and Ball Clay	212324	Kaolin and Ball Clay Mining
1459	Clay, Ceramic, and Refractory Minerals, Not Elsewhere Classified	212325	Clay and Ceramic and Refractory Minerals Mining
1474	Potash, Soda, and Borate Minerals	212391	Potash, Soda, and Borate Mineral Mining
1475	Phosphate Rock	212392	Phosphate Rock Mining
1479	Chemical and Fertilizer Mineral Mining, Not Elsewhere Classified	212393	Other Chemical and Fertilizer Mineral Mining
1481	Nonmetallic Minerals Services, Except Fuels	213115	Support Activities for Nonmetallic Minerals (except Fuels) Mining
		238910	Site Preparation Contractors
1499	Miscellaneous Nonmetallic Minerals, Except Fuels	212319	Other Crushed and Broken Stone Mining and Quarrying
		212399	All Other Nonmetallic Mineral Mining

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SECTOR K: HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

Activity Code	Activity Code Description	2017 NAICS Code	Notes
HZ	Hazardous Waste Treatment, Storage and Disposal Facilities	No NAICS Code Equivalent	Activity Codes are non-SIC / non-NAICS designation <u>See Part V, Section K for Detailed Description of Sector</u>

SECTOR L: LANDFILLS AND LAND APPLICATION SITES

Activity Code	Activity Code Description	2017 NAICS Code	Notes
LF	Landfills, Land Application Sites, and Open Dumps	No NAICS Code Equivalent	Activity Codes are non-SIC / non-NAICS designation <u>See Part V, Section L for Detailed Description of Sector</u>

SECTOR M: AUTOMOBILE SALVAGE YARDS

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
5015	Motor Vehicle Parts, Used (Automobile Salvage Yard)	423140	Motor Vehicle Parts (Used) Merchant Wholesalers

SECTOR N: SCRAP AND WASTE RECYCLING FACILITIES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
5093	Scrap and Waste Materials	423930	Recyclable Material Merchant Wholesalers
		425110	Business to Business Electronic Markets
		425120	Wholesale Trade Agents and Brokers

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SECTOR O: STEAM ELECTRIC GENERATING FACILITIES

Activity Code	Activity Code Description	2017 NAICS Code	Notes
SE	Steam Electric Power Generating Facilities	No NAICS Code Equivalent	Activity Codes are non-SIC / non-NAICS designation <u>See Part V, Section O for detailed description of Sector</u>

SECTOR P: LAND TRANSPORTATION AND WAREHOUSING

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
4011	Railroads, Line-Haul Operating	482111	Line-Haul Railroads
4013	Railroad Switching and Terminal Establishments	482112	Short Line Railroads
		488210	Support Activities for Rail Transportation
4111	Local and Suburban Transit	485111	Mixed Mode Transit Systems
		485112	Commuter Rail Systems
		485113	Bus and Other Motor Vehicle Transit Systems
		485119	Other Urban Transit Systems
		485999	All Other Transit and Ground Passenger Transportation
4119	Local Passenger Transportation, Not Elsewhere Classified	485320	Limousine Service
		485410	School and Employee Bus Transportation
		485991	Special Needs Transportation
		485999	All Other Transit and Ground Passenger Transportation
		487110	Scenic and Sightseeing Transportation, Land
		621910	Ambulance Services
4121	Taxicabs	485310	Taxi Service

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
4131	Intercity and Rural Bus Transportation	485210	Interurban and Rural Bus Transportation
4141	Local Bus Charter Service	485510	Charter Bus Industry
4142	Bus Charter Service, Except Local	485510	Charter Bus Industry
4151	School Buses	485410	School and Employee Bus Transportation
4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	488490	Other Support Activities for Road Transportation
4212	Local Trucking Without Storage	484110	General Freight Trucking, Local
		484210	Used Household and Office Goods Moving
		484220	Specialized Freight (except Used Goods) Trucking, Local
		562111	Solid Waste Collection
		562112	Hazardous Waste Collection
		562119	Other Waste Collection
4213	Trucking, Except Local	484121	General Freight Trucking, Long-Distance, Truckload
		484122	General Freight Trucking, Long-Distance, Less Than Truckload
		484210	Used Household and Office Goods Moving
		484230	Specialized Freight (except Used Goods) Trucking, Long-Distance
4214	Local Trucking With Storage	484110	General Freight Trucking, Local
		484210	Used Household and Office Goods Moving
		484220	Specialized Freight (except Used Goods) Trucking, Local
4215	Courier Services, Except by Air	492110	Couriers and Express Delivery Services
		492210	Local Messengers and Local Delivery

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
4221	Farm Product Warehousing and Storage	493130	Farm Product Warehousing and Storage
4222	Refrigerated Warehousing and Storage	493120	Refrigerated Warehousing and Storage
4225	General Warehousing and Storage	493110	General Warehousing and Storage
		531130	Lessors of Miniwarehouses and Self-Storage Units
4226	Special Warehousing and Storage, Not Elsewhere Classified	493110	General Warehousing and Storage
		493120	Refrigerated Warehousing and Storage
		493190	Other Warehousing and Storage
4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	488490	Other Support Activities for Road Transportation
4311	United States Postal Service	491110	Postal Service
5171	Petroleum Bulk Stations and Terminals (primarily engaged in the wholesale distribution of crude petroleum and petroleum products, including liquefied petroleum gas, from bulk liquid storage facilities)	424710	Petroleum Bulk Stations and Terminals
		454310	Fuel Dealers

SECTOR Q: WATER TRANSPORTATION

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
4412	Deep Sea Foreign Transportation of Freight	483111	Deep Sea Freight Transportation
4424	Deep Sea Domestic Transportation of Freight	483113	Coastal and Great Lakes Freight Transportation
4449	Water Transportation of Freight, Not Elsewhere Classified	483211	Inland Water Freight Transportation
4481	Deep Sea Transportation of Passengers, Except by Ferry	483112	Deep Sea Passenger Transportation
		483114	Coastal Passenger Transportation
4482	Ferries	483114	Coastal and Great Lakes Passenger Transportation

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		483212	Inland Water Passenger Transportation
4489	Water Transportation of Passengers, Not Elsewhere Classified	483212	Inland Water Passenger Transportation
		487210	Scenic and Sightseeing Transportation, Water
4491	Marine Cargo Handling	488310	Port and Harbor Operations
		488320	Marine Cargo Handling
4492	Towing and Tugboat Services	488330	Navigational Services to Shipping
4493	Marinas	713930	Marinas
4499	Water Transportation Services, Not Elsewhere Classified	483211	Inland Water Freight Transportation
		488310	Port and Harbor Operations
		488330	Navigational Services to Shipping
		488390	Other Support Activities for Water Transportation
		532411	Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing

SECTOR R: SHIP AND BOAT BUILDING OR REPAIRING YARDS

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3731	Ship Building and Repairing	336611	Ship Building and Repairing
		488390	Other Support Activities for Water Transportation
3732	Boat Building and Repairing	336612	Boat Building
		811490	Other Personal and Household Goods Repair and Maintenance

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SECTOR S: AIR TRANSPORTATION

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
4512	Air Transportation, Scheduled	481111	Scheduled Passenger Air Transportation
		481112	Scheduled Freight Air Transportation
4513	Air Courier Services	492110	Couriers and Express Delivery Services
4522	Air Transportation, Nonscheduled	481211	Nonscheduled Chartered Passenger Air Transportation
		481212	Nonscheduled Chartered Freight Air Transportation
		481219	Other Nonscheduled Air Transportation
		487990	Scenic and Sightseeing Transportation, Other
		621910	Ambulance Services
4581	Airports, Flying Fields, and Airport Terminal Services	488119	Other Airport Operations
		488190	Other Support Activities for Air Transportation

SECTOR T: TREATMENT WORKS

Activity Code	Activity Code Description	2017 NAICS Code	Notes
TW	Certain Wastewater Treatment Plants	No NAICS Code Equivalent	Activity Codes are non-SIC / non-NAICS designation <u>See Part V, Section T for Detailed Description of Sector</u>

SECTOR U: FOOD AND KINDRED PRODUCTS FACILITIES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2011	Meat Packing Plants	311611	Animal (except Poultry) Slaughtering
2013	Sausages and Other Prepared Meat Products	311612	Meat Processed from Carcasses
		311613	Rendering and Meat Byproduct Processing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2015	Poultry Slaughtering and Processing	311615	Poultry Processing
		311999	All Other Miscellaneous Food Manufacturing
2021	Creamery Butter	311512	Creamery Butter Manufacturing
2022	Natural, Processed, and Imitation Cheese	311513	Cheese Manufacturing
2023	Dry, Condensed, and Evaporated Dairy Products	311511	Fluid Milk Manufacturing
		311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing
2024	Ice Cream and Frozen Deserts	311520	Ice Cream and Frozen Desert Manufacturing
2026	Fluid Milk	311511	Fluid Milk Manufacturing
		311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing
2032	Canned Specialties	311422	Specialty Canning
		311999	All Other Miscellaneous Food Manufacturing
2033	Canned Fruits, Vegetables, Preserves, Jams, and Jellies	311421	Fruit and Vegetable Canning
2034	Dried and Dehydrated Fruits, Vegetables, and Soup Mixes	311211	Flour Milling
		311423	Dried and Dehydrated Food Manufacturing
		311999	All Other Miscellaneous Food Manufacturing
2035	Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings	311421	Fruit and Vegetable Canning
		311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing
2037	Frozen Fruits, Fruit Juices, and Vegetables	311411	Frozen Fruit, Juice, and Vegetable Manufacturing
2038	Frozen Specialties, Not Elsewhere Classified	311412	Frozen Specialty Food Manufacturing
2041	Flour and Other Grain Mill Products	311211	Flour Milling
2043	Cereal Breakfast Foods	311230	Breakfast Cereal Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		311920	Coffee and Tea Manufacturing
2044	Rice Milling	311212	Rice Milling
2045	Prepared Flour Mixes and Doughs	311824	Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour
2046	Wet Corn Milling	311221	Wet Corn Milling
		311225	Fats and Oils Refining and Blending
2047	Dog and Cat Food	311111	Dog and Cat Food Manufacturing
2048	Prepared Feed and Feed Ingredients for Animals and Fowls, Except Dogs and Cats	311119	Other Animal Food Manufacturing
		311611	Animal (except Poultry) Slaughtering
2051	Bread and Other Bakery Products, Except Cookies and Crackers	311812	Commercial Bakeries
2052	Cookies and Crackers	311812	Commercial Bakeries
		311821	Cookie and Cracker Manufacturing
		311919	Other Snack Food Manufacturing
2053	Frozen Bakery Products, Except Bread	311813	Frozen Cakes, Pies, and Other Pastries Manufacturing
2061	Cane Sugar, Except Refining	311314	Cane Sugar Manufacturing
2062	Cane Sugar Refining	311314	Cane Sugar Refining
2063	Beet Sugar	311313	Beet Sugar Manufacturing
2064	Candy and Other Confectionery Products	311340	Nonchocolate Confectionery Manufacturing
		311352	Confectionery Manufacturing from Purchased Chocolate
2066	Chocolate and Cocoa Products	311351	Chocolate and Confectionery Manufacturing from Cacao Beans
		311352	Confectionery Manufacturing from Purchased Chocolate
2067	Chewing Gum	311340	Nonchocolate Confectionery Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2068	Salted and Roasted Nuts and Seeds	311911	Roasted Nuts and Peanut Butter Manufacturing
2074	Cottonseed Oil Mills	311224	Soybean and Other Oilseed Processing
		311225	Fats and Oils Refining and Blending
2075	Soybean Oil Mills	311224	Soybean and Other Oilseed Processing
		311225	Fats and Oils Refining and Blending
2076	Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean	311224	Soybean and Other Oilseed Processing
		311225	Fats and Oils Refining and Blending
2077	Animal and Marine Fats and Oils	311613	Rendering and Meat Byproduct Processing
		311710	Seafood Product Preparation and Packaging
2079	Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, Not Elsewhere Classified	311224	Soybean and Other Oilseed Processing
		311225	Fats and Oils Refining and Blending
2082	Malt Beverages	311942	Spice and Extract Manufacturing
		312120	Breweries
2083	Malt	311213	Malt Manufacturing
2084	Wines, Brandy, and Brandy Spirits	312130	Wineries
2085	Distilled and Blended Liquors	312130	Wineries
		312140	Distilleries
2086	Bottled and Canned Soft Drinks and Carbonated Water	312111	Soft Drink Manufacturing
		312112	Bottled Water Manufacturing
2087	Flavoring Extracts and Flavoring Syrups, Not Elsewhere Classified	311920	Coffee and Tea Manufacturing
		311930	Flavoring Syrup and Concentrate Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		311942	Spice and Extract Manufacturing
		311999	All Other Miscellaneous Food Manufacturing
2091	Canned and Cured Fish and Seafood	311710	Seafood Product Preparation and Packaging
2092	Prepared Fresh or Frozen Fish and Seafood	311710	Seafood Product Preparation and Packaging
2095	Roasted Coffee	311920	Coffee and Tea Manufacturing
2096	Potato Chips, Corn Chips, and Similar Snacks	311919	Other Snack Food Manufacturing
2097	Manufactured Ice	312113	Ice Manufacturing
2098	Macaroni, Spaghetti, Vermicelli, and Noodles	311824	Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour
2099	Food Preparations, Not Elsewhere Classified	111998	All Other Miscellaneous Crop Farming
		311212	Rice Milling
		311340	Nonchocolate Confectionery Manufacturing
		311423	Dried and Dehydrated Food Manufacturing
		311824	Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour
		311830	Tortilla Manufacturing
		311911	Roasted Nuts and Peanut Butter Manufacturing
		311920	Coffee and Tea Manufacturing
		311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing
		311942	Spice and Extract Manufacturing
		311991	Perishable Prepared Food Manufacturing
311999	All Other Miscellaneous Food Manufacturing		
2111	Cigarettes	312230	Tobacco Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2121	Cigars	312230	Tobacco Manufacturing
2131	Chewing and Smoking Tobacco and Snuff	312230	Tobacco Manufacturing
2141	Tobacco Stemming and Redrying	312230	Tobacco Manufacturing

**SECTOR V: TEXTILE MILLS, APPAREL, AND OTHER FABRIC PRODUCT
MANUFACTURING FACILITIES**

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2211	Broadwoven Fabric Mills, Cotton	313210	Broadwoven Fabric Mills
2221	Broadwoven Fabric Mills, Manmade Fiber and Silk	313210	Broadwoven Fabric Mills
2231	Broadwoven Fabric Mills, Wool (including dyeing and finishing)	313210	Broadwoven Fabric Mills
		313310	Textile and Fabric Finishing Mills
2241	Narrow Fabric and Other Smallware Mills: Cotton, Wool, Silk and Manmade Fiber	313220	Narrow Fabric Mills and Schiffli Machine Embroidery
2251	Women's Full-Length and Knee-Length Hosiery, Except Socks	313310	Textile and Fabric Finishing Mills
		315110	Hosiery and Sock Mills
2252	Hosiery, Not Elsewhere Classified	313310	Textile and Fabric Finishing Mills
		315110	Hosiery and Sock Mills
2253	Knit Outerwear Mills	313310	Textile and Fabric Finishing Mills
		315190	Other Apparel Knitting Mills
2254	Knit Underwear and Nightwear Mills	313310	Textile and Fabric Finishing Mills
		315190	Other Apparel Knitting Mills
2257	Weft Knit Fabric Mills	313240	Knit Fabric Mills

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		313310	Textile and Fabric Finishing Mills
2258	Lace and Warp Knit Fabric Mills	313240	Knit Fabric Mills
		313310	Textile and Fabric Finishing Mills
2259	Knitting Mills, Not Elsewhere Classified	315190	Other Apparel Knitting Mills
		313240	Knit Fabric Mills
		313310	Textile and Fabric Finishing Mills
2261	Finishers of Broadwoven Fabrics of Cotton	313310	Textile and Fabric Finishing Mills
2262	Finishers of Broadwoven Fabrics of Manmade Fibers and Silk	313310	Textile and Fabric Finishing Mills
2269	Finishers of Textiles, Not Elsewhere Classified	313310	Textile and Fabric Finishing Mills
2273	Carpets and Rugs	314110	Carpet and Rug Mills
2281	Yarn Spinning Mills	313110	Fiber, Yarn, and Thread Mills
2282	Yarn Texturizing, Throwing, Twisting and Winding Mills	313110	Fiber, Yarn, and Thread Mills
2284	Thread Mills	313110	Fiber, Yarn, and Thread Mills
		313310	Textile and Fabric Finishing Mills
2295	Coated Fabrics, Not Rubberized	313320	Fabric Coating Mills
2296	Tire Cord and Fabrics	314994	Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills
2297	Non-woven Fabrics	313230	Nonwoven Fabric Mills
2298	Cordage and Twine	313110	Fiber, Yarn, and Thread Mills
		314994	Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills
2299	Textile Goods, Not Elsewhere Classified	313110	Fiber, Yarn, and Thread Mills
		313210	Broadwoven Fabric Mills

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		313220	Narrow Fabric Mills and Schiffli Machine Embroidery
		313230	Nonwoven Fabric Mills
		313310	Textile and Fabric Finishing Mills
		314999	All Other Miscellaneous Textile Product Mills
2311	Men's and Boys' Suits, Coats, and Overcoats	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
2321	Men's and Boys' Shirts, Except Work Shirts	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
2322	Men's and Boys' Underwear and Nightwear	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
2323	Men's and Boys' Neckwear	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315990	Apparel Accessories and Other Apparel Manufacturing
2325	Men's and Boys' Separate Trousers and Slacks	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
2326	Men's and Boys' Work Clothing	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
2329	Men's and Boys' Clothing, Not Elsewhere Classified	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
		315280	Other Cut and Sew Apparel Manufacturing
2331	Women's, Misses', and Juniors' Blouses and Shirts	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
2335	Women's, Misses', and Juniors' Dresses	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
2337	Women's, Misses', and Juniors' Suits, Skirts, and Coats	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
2339	Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
		315280	Other Cut and Sew Apparel Manufacturing
		315990	Apparel Accessories and Other Apparel Manufacturing
2341	Women's, Misses', Children's, and Infants' Underwear and Nightwear	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
2342	Brassieres, Girdles, and Allied Garments	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
2353	Hats, Caps, and Millinery	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315990	Apparel Accessories and Other Apparel Manufacturing
2361	Girls', Children's, and Infants' Dresses, Blouses, and Shirts	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
2369	Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
2371	Fur Goods	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315280	Other Cut and Sew Apparel Manufacturing
2381	Dress and Work Gloves, Excludes Knit and All-Leather	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		315990	Apparel Accessories and Other Apparel Manufacturing
2384	Robes and Dressing Gowns	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
2385	Waterproof Outerwear	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315220	Men's and Boys' Cut and Sew Apparel Manufacturing
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
		315280	Other Cut and Sew Apparel Manufacturing
		315990	Apparel Accessories and Other Apparel Manufacturing
2386	Leather and Sheep-Lined Clothing	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315280	Other Cut and Sew Apparel Manufacturing
2387	Apparel Belts	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315990	Apparel Accessories and Other Apparel Manufacturing
2389	Apparel and Accessories, Not Elsewhere Classified	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
		315280	Other Cut and Sew Apparel Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		315990	Apparel Accessories and Other Apparel Manufacturing
2391	Curtains and Draperies	314120	Curtain and Linen Mills
2392	House furnishings, Except Curtains and Draperies	314120	Curtain and Linen Mills
		314910	Textile Bag and Canvas Mills
		314999	All Other Miscellaneous Textile Product Mills
		339994	Broom, Brush, and Mop Manufacturing
2393	Textile Bags	314910	Textile Bag and Canvas Mills
2394	Canvas and Related Products	314910	Textile Bag and Canvas Mills
2395	Pleating, Decorative and Novelty Stitching, and Tucking for the Trade	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
2396	Automotive Trimmings, Apparel Findings, and Related Products	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315990	Apparel Accessories and Other Apparel Manufacturing
		323113	Commercial Screen Printing
		336360	Motor Vehicle Seating and Interior Trim Manufacturing
2397	Schiffli Machine Embroideries	313220	Narrow Fabric Mills and Schiffli Machine Embroidery
2399	Fabricated Textile Products, Not Elsewhere Classified	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315990	Apparel Accessories and Other Apparel Manufacturing
		336360	Motor Vehicle Seating and Interior Trim Manufacturing
3131	Boot and Shoe Cut Stock and Findings	316998	All Other Leather Good and Allied Product Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		321999	All Other Miscellaneous Wood Product Manufacturing
		339993	Fastener, Button, Needle, and Pin Manufacturing
3142	House Slippers	316210	Footwear Manufacturing
3143	Men's Footwear, Except Athletic	316210	Footwear Manufacturing
3144	Women's Footwear, Except Athletic	316210	Footwear Manufacturing
3149	Footwear, Except Rubber, Not Elsewhere Classified	316210	Footwear Manufacturing
3151	Leather Gloves and Mittens	314999	All Other Miscellaneous Textile Product Mills
		315210	Cut and Sew Apparel Contractors
		315990	Apparel Accessories and Other Apparel Manufacturing
3161	Luggage	316998	All Other Leather Good and Allied Product Manufacturing
3171	Women's Handbags and Purses	316992	Women's Handbag and Purse Manufacturing
3172	Personal Leather Goods, Except Women's Handbags and Purses	316998	All Other Leather Good and Allied Product Manufacturing
		339910	Jewelry and Silverware Manufacturing
3199	Leather Goods, Not Elsewhere Classified	316998	All Other Leather Good and Allied Product Manufacturing

SECTOR W: FURNITURE AND FIXTURES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2434	Wood Kitchen Cabinets	337110	Wood Kitchen Cabinet and Countertop Manufacturing
2511	Wood Household Furniture, Except Upholstered	337122	Non-upholstered Wood Household Furniture Manufacturing
		337215	Showcase, Partition, Shelving, and Locker Manufacturing
2512	Wood Household Furniture, Upholstered	337121	Upholstered Household Furniture Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2514	Metal Household Furniture	337121	Upholstered Household Furniture Manufacturing
		337124	Metal Household Furniture Manufacturing
		337215	Showcase, Partition, Shelving, and Locker Manufacturing
2515	Mattresses, Foundations, and Convertible Beds	337121	Upholstered Household Furniture Manufacturing
		337910	Mattress Manufacturing
2517	Wood Television, Radio, Phonograph, and Sewing Machine Cabinets	321999	All Other Miscellaneous Wood Product Manufacturing
2519	Household Furniture, Not Elsewhere Classified	337125	Household Furniture (except Wood and Metal) Manufacturing
2521	Wood Office Furniture	337211	Wood Office Furniture Manufacturing
2522	Office Furniture, Except Wood	337214	Office Furniture (Except Wood) Manufacturing
2531	Public Building and Related Furniture	336360	Motor Vehicle Seating and Interior Trim Manufacturing
		337127	Institutional Furniture Manufacturing
		339940	Office Supplies (except Paper) Manufacturing
2541	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers	337110	Wood Kitchen Cabinet and Countertop Manufacturing
		337127	Institutional Furniture Manufacturing
		337212	Custom Architectural Woodwork and Millwork Manufacturing
		337215	Showcase, Partition, Shelving, and Locker Manufacturing
2542	Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood	337127	Institutional Furniture Manufacturing
		337215	Showcase, Partition, Shelving, and Locker Manufacturing
2591	Drapery Hardware and Window Blinds and Shades	337920	Blind and Shade Manufacturing
2599	Furniture and Fixtures, Not Elsewhere Classified	333249	Other Industrial Machinery Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
		333994	Industrial Process Furnace and Oven Manufacturing
		333997	Scale and Balance Manufacturing
		333999	All Other Miscellaneous General Purpose Machinery Manufacturing
		337127	Institutional Furniture Manufacturing
		339113	Surgical Appliance and Supplies Manufacturing

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SECTOR X: PRINTING AND PUBLISHING

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
2711	Newspapers: Publishing, or Publishing and Printing	511110	Newspaper Publishers (or publishing combined with printing, excludes exclusive Internet publishing)
2721	Periodicals: Publishing, or Publishing and Printing	511120	Periodical Publishers (or publishing combined with printing, excludes exclusive Internet publishing)
2731	Books: Publishing, or Publishing and Printing	511130	Book Publishers
		512230	Music Publishers
2732	Book Printing	323117	Books Printing
2741	Miscellaneous Publishing	511120	Periodical Publishers
		511130	Book Publishers
		511140	Directory and Mailing List Publishers
		511199	All Other Publishers
		512230	Music Publishers
2752	Commercial Printing, Lithographic	323111	Commercial Printing (except Screen and Books)
2754	Commercial Printing, Gravure	323111	Commercial Printing (except Screen and Books)
2759	Commercial Printing, Not Elsewhere Classified	323111	Commercial Printing (except Screen and Books)
		323113	Commercial Screen Printing
2761	Manifold Business Forms	323111	Commercial Printing (except Screen and Books)
2771	Greeting Cards	323111	Commercial Printing (except Screen and Books)
		323113	Commercial Screen Printing
		511191	Greeting Card Publishers
2782	Blankbooks, Looseleaf Binders and Devices	323111	Commercial Printing (except Screen and Books)
2789	Bookbinding and Related Work	323120	Support Activities for Printing

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2791	Typesetting	323120	Support Activities for Printing
2796	Platemaking and Related Services	323120	Support Activities for Printing

SECTOR Y: RUBBER, MISCELLANEOUS PLASTIC PRODUCTS, AND MISCELLANEOUS MANUFACTURING FACILITIES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3011	Tires and Inner Tubes	326211	Tire Manufacturing (except Retreading)
3021	Rubber and Plastics Footwear	316210	Footwear Manufacturing
3052	Rubber and Plastics Hose and Belting	326220	Rubber and Plastics Hoses and Belting Manufacturing
3053	Gaskets, Packing, and Sealing Devices	339991	Gaskets, Packing, and Sealing Device Manufacturing
3061	Molded, Extruded, and Lathe-Cut Mechanical Rubber Goods	326291	Rubber Product Manufacturing for Mechanical Use
		326299	All Other Rubber Product Manufacturing
3069	Fabricated Rubber Products, Not Elsewhere Classified	313320	Fabric Coating Mills
		314910	Textile Bag and Canvas Mills
		315280	All Other Cut and Sew Apparel Manufacturing
		315990	Apparel Accessories and Other Apparel Manufacturing
		326199	All Other Plastics Product Manufacturing
		326299	All Other Rubber Product Manufacturing
		336612	Boat Building
		339113	Surgical Appliance and Supplies Manufacturing
		339920	Sporting and Athletic Goods Manufacturing
		339930	Doll, Toy, and Game Manufacturing
3081	Unsupported Plastics Film and Sheet	326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3082	Unsupported Plastics Profile Shapes	326121	Unlaminated Plastics Profile Shape Manufacturing
3083	Laminated Plastics Plate, Sheet, and Profile Shapes	326130	Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing
3084	Plastics Pipe	326122	Plastics Pipe and Pipe Fitting Manufacturing
3085	Plastics Bottles	326160	Plastics Bottle Manufacturing
3086	Plastics Foam Products	326140	Polystyrene Foam Product Manufacturing
		326150	Urethane and Other Foam Product (except Polystyrene) Manufacturing
3087	Custom Compounding of Purchased Plastics Resins	325991	Custom Compounding of Purchased Resins
3088	Plastics Plumbing Fixtures	326191	Plastics Plumbing Fixture Manufacturing
3089	Plastics Products, Not Elsewhere Classified	326121	Unlaminated Plastics Profile Shape Manufacturing
		326122	Plastics Pipe and Pipe Fitting Manufacturing
		326199	All Other Plastics Product Manufacturing
		336612	Boat Building
		337215	Showcase, Partition, Shelving, and Locker Manufacturing
		339113	Surgical Appliance and Supplies Manufacturing
3931	Musical Instruments	339992	Musical Instrument Manufacturing
3942	Dolls and Stuffed Toys	339930	Doll, Toy, and Game Manufacturing
3944	Games, Toys, and Children's Vehicles, Excludes Dolls and Bicycles	336991	Motorcycle, Bicycle, and Parts Manufacturing
		339930	Doll, Toy, and Game Manufacturing
3949	Sporting and Athletic Goods, Not Elsewhere Classified	339920	Sporting and Athletic Goods Manufacturing
3951	Pens, Mechanical Pencils, and Parts	339940	Office Supplies (except Paper) Manufacturing
3953	Marking Devices	339940	Office Supplies (except Paper) Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3955	Carbon Paper and Inked Ribbons	339940	Office Supplies (except Paper) Manufacturing
3961	Costume Jewelry and Costume Novelties (Except Precious Metal)	339910	Jewelry and Silverware Manufacturing
		339993	Fastener, Button, Needle, and Pin Manufacturing
3965	Fasteners, Buttons, Needles, and Pins	339993	Fastener, Button, Needle, and Pin Manufacturing
3991	Brooms and Brushes	339994	Broom, Brush, and Mop Manufacturing
3993	Signs and Advertising Specialties	323113	Commercial Screen Printing
		339950	Sign Manufacturing
3995	Burial Caskets	339995	Burial Casket Manufacturing
3996	Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, Not Elsewhere Classified	326199	All Other Plastics Product Manufacturing
3999	Manufacturing Industries, Not Elsewhere Classified	316110	Leather and Hide Tanning and Finishing
		321999	All Other Miscellaneous Wood Product Manufacturing
		325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing
		326199	All Other Plastics Product Manufacturing
		332215	Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing
		332216	Saw Blade and Handtool Manufacturing
		332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
		333318	Other Commercial and Service Industry Machinery Manufacturing
		335121	Residential Electric Lighting Fixture Manufacturing
		335210	Small Electrical Appliance Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		336612	Boat Building
		337127	Institutional Furniture Manufacturing
		339930	Doll, Toy, and Game Manufacturing
		339999	All Other Miscellaneous Manufacturing

SECTOR Z: LEATHER TANNING AND FINISHING

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3111	Leather Tanning and Finishing	316110	Leather and Hide Tanning and Finishing

SECTOR AA: FABRICATED METAL PRODUCTS FACILITIES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3411	Metal Cans	332431	Metal Can Manufacturing
3412	Metal Shipping Barrels, Drums, Kegs, and Pails	332439	Other Metal Container Manufacturing
3421	Cutlery	332215	Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing
		332216	Saw Blade and Handtool Manufacturing
3423	Hand and Edge Tools, Excludes Machine Tools and Handsaws	332216	Saw Blade and Handtool Manufacturing
3425	Saw Blades and Handsaws	332216	Saw Blade and Handtool Manufacturing
3429	Hardware, Not Elsewhere Classified	332439	Other Metal Container Manufacturing
		332510	Hardware Manufacturing
		332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		332919	Other Metal Valve and Pipe Fitting Manufacturing
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
		333923	Overhead Traveling Crane, Hoist, and Monorail System Manufacturing
		334519	Other Measuring and Controlling Device Manufacturing
		336390	Other Motor Vehicle Parts Manufacturing
		337215	Showcase, Partition, Shelving, and Locker Manufacturing
3431	Enameled Iron and Metal Sanitary Ware	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
3432	Plumbing Fixture Fittings and Trim	332913	Plumbing Fixture Fitting and Trim Manufacturing
		332919	Other Metal Valve and Pipe Fitting Manufacturing
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
3433	Heating Equipment, Except Electric and Warm Air Furnaces	333414	Heating Equipment (except Warm Air Furnaces) Manufacturing
3441	Fabricated Structural Metal	332312	Fabricated Structural Metal Manufacturing
3442	Metal Doors, Sash, Frames, Molding, and Trim Manufacturing	332321	Metal Window and Door Manufacturing
3443	Fabricated Plate Work (Boiler Shops)	332313	Plate Work Manufacturing
		332410	Power Boiler and Heat Exchanger Manufacturing
		332420	Metal Tank (Heavy Gauge) Manufacturing
		333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
3444	Sheet Metal Work	332321	Metal Window and Door Manufacturing
		332322	Sheet Metal Work Manufacturing
		332439	Other Metal Container Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
3446	Architectural and Ornamental Metal Work	332323	Ornamental and Architectural Metal Work Manufacturing
3448	Prefabricated Metal Buildings and Components	332311	Prefabricated Metal Building and Component Manufacturing
3449	Miscellaneous Structural Metal Work	332114	Custom Roll Forming
		332312	Fabricated Structural Metal Manufacturing
		332323	Ornamental and Architectural Metal Work Manufacturing
3451	Screw Machine Products	332721	Precision Turned Product Manufacturing
3452	Bolts, Nuts, Screws, Rivets, and Washers	332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing
3462	Iron and Steel Forgings	332111	Iron and Steel Forging
3463	Nonferrous Forgings	332112	Nonferrous Forging
3465	Automotive Stampings	336370	Motor Vehicle Metal Stamping
3466	Crowns and Closures	332119	Metal Crown, Closure, and Other Metal Stamping (except Automotive)
3469	Metal Stampings, Not Elsewhere Classified	332119	Metal Crown, Closure, and Other Metal Stamping (except Automotive)
		332215	Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing
		332439	Other Metal Container Manufacturing
3471	Electroplating, Plating, Polishing, Anodizing, and Coloring	332813	Electroplating, Plating, Polishing, Anodizing, and Coloring
3479	Coating, Engraving, and Allied Services, Not Elsewhere Classified	332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers
		339910	Jewelry and Silverware Manufacturing
3482	Small Arms Ammunition	332992	Small Arms Ammunition Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3483	Ammunition, Excepts for Small Arms	332993	Ammunition (except Small Arms) Manufacturing
3484	Small Arms	332994	Small Arms, Ordnance, and Ordnance Accessories Manufacturing
3489	Ordinance and Accessories, Not Elsewhere Classified	332994	Small Arms, Ordnance, and Ordnance Accessories Manufacturing
3491	Industrial Valves	332911	Industrial Valve Manufacturing
3492	Fluid Power Valves and Hose Fittings	332912	Fluid Power Valve and Hose Fitting Manufacturing
3493	Steel Springs, Except Wire	332613	Spring Manufacturing
3494	Valves and Pipe Fittings, Not Elsewhere Classified	332919	Other Metal Valve and Pipe Fitting Manufacturing
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
3495	Wire Springs	332613	Spring Manufacturing
		334519	Other Measuring and Controlling Device Manufacturing
3496	Miscellaneous Fabricated Wire Products	332215	Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing
		332618	Other Fabricated Wire Product Manufacturing
		333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
3497	Metal Foil and Leaf	322220	Paper Bag and Coated and Treated Paper Manufacturing
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
3498	Fabricated Pipe and Pipe Fittings	332996	Fabricated Pipe and Pipe Fitting Manufacturing
3499	Fabricated Metal Products, Not Elsewhere Classified	332117	Powder Metallurgy Part Manufacturing
		332439	Other Metal Container Manufacturing
		332510	Hardware Manufacturing
		332919	Other Metal Valve and Pipe Fitting Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
		336360	Motor Vehicle Seating and Interior Trim Manufacturing
		337215	Showcase, Partition, Shelving, and Locker Manufacturing
3911	Jewelry, Precious Metal	339910	Jewelry and Silverware Manufacturing
3914	Silverware, Plated Ware, and Stainless Steel Ware	332215	Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
		339910	Jewelry and Silverware Manufacturing
3915	Jewelers' Findings and Materials, and Lapidary Work	334519	Other Measuring and Controlling Device Manufacturing
		339910	Jewelry and Silverware Manufacturing

SECTOR AB: TRANSPORTATION EQUIPMENT, INDUSTRIAL OR COMMERCIAL MACHINERY MANUFACTURING FACILITIES

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3511	Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units	333611	Turbine and Turbine Generator Set Units Manufacturing
3519	Internal Combustion Engines, Not Elsewhere Classified	333618	Other Engine Equipment Manufacturing
		336390	Other Motor Vehicle Parts Manufacturing
3523	Farm Machinery and Equipment	332216	Saw Blade and Handtool Manufacturing
		332323	Ornamental and Architectural Metal Work Manufacturing
		333111	Farm Machinery and Equipment Manufacturing
		333922	Conveyor and Conveying Equipment Manufacturing
3524		332216	Saw Blade and Handtool Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
	Lawn and Garden Tractors and Home Lawn and Garden Equipment	333112	Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing
3531	Construction Machinery and Equipment	333120	Construction Machinery Manufacturing
		333923	Overhead Traveling Crane, Hoist, and Monorail System Manufacturing
		336510	Railroad Rolling Stock Manufacturing
3532	Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment	333131	Mining Machinery and Equipment Manufacturing
3533	Oil and Gas Field Machinery and Equipment	333132	Oil and Gas Field Machinery and Equipment Manufacturing
3534	Elevators and Moving Stairways	333921	Elevators and Moving Stairway Manufacturing
3535	Conveyors and Conveying Equipment	333922	Conveyors and Conveying Equipment Manufacturing
3536	Overhead Traveling Cranes, Hoists, and Monorail Systems	333923	Overhead Traveling Cranes, Hoists, and Monorail System Manufacturing
3537	Industrial Trucks, Tractors, Trailers, and Stackers	332439	Other Metal Container Manufacturing
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
		333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
3541	Machine Tools, Metal Cutting Types	333517	Machine Tool Manufacturing
3542	Machine Tools, Metal Forming Types	333517	Machine Tool Manufacturing
3543	Industrial Patterns	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds	333511	Industrial Mold Manufacturing
		333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing
3545	Cutting Tools, Machine Tool Accessories, and Machinists' Precision Measuring Devices	332216	Saw Blade and Handtool Manufacturing
		333515	Cutting Tool and Machine Tool Accessory Manufacturing
3546	Power-Driven Hand Tools	333991	Power-Driven Handtool Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3547	Rolling Mill Machinery and Equipment	333519	Rolling Mill and Other Metalworking Machinery Manufacturing
3548	Electric and Gas Welding and Soldering Equipment	333992	Welding and Soldering Equipment Manufacturing
		335311	Power, Distribution, and Specialty Transformer Manufacturing
3549	Metalworking Machinery, Not Elsewhere Classified	333519	Rolling Mill and Other Metalworking Machinery Manufacturing
3552	Textile Machinery	333249	Other Industrial Machinery Manufacturing
3553	Woodworking Machinery	333243	Sawmill, Woodworking, and Paper Machinery Manufacturing
3554	Paper Industries Machinery	333243	Sawmill, Woodworking, and Paper Machinery Manufacturing
3555	Printing Trades Machinery and Equipment	333244	Printing Machinery and Equipment Manufacturing
3556	Food Products Machinery	333241	Food Product Machinery Manufacturing
3559	Special Industry Machinery, Not Elsewhere Classified	332410	Power Boiler and Heat Exchanger Manufacturing
		333111	Farm Machinery and Equipment Manufacturing
		333242	Semiconductor Machinery Manufacturing
		333249	Other Industrial Machinery Manufacturing
		333318	Other Commercial and Service Industry Machinery Manufacturing
3561	Pumps and Pumping Equipment	333914	Measuring, Dispensing, and Other Pumping Equipment Manufacturing
3562	Ball and Roller Bearings	332991	Ball and Roller Bearing Manufacturing
3563	Air and Gas Compressors	333912	Air and Gas Compressor Manufacturing
3564	Industrial and Commercial Fans and Blowers and Air Purification Equipment	333413	Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing
3565	Packaging Machinery	333993	Packaging Machinery Manufacturing
3566	Speed Changers, Industrial High-Speed Drives, and Gears	333612	Speed Changer, Industrial High-Speed Drives, and Gear Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3567	Industrial Process Furnaces and Ovens	333994	Industrial Process Furnace and Oven Manufacturing
3568	Mechanical Power Transmission Equipment, Not Elsewhere Classified	333613	Mechanical Power Transmission Equipment Manufacturing
3569	General Industrial Machinery and Equipment, Not Elsewhere	314999	All Other Miscellaneous Textile Product Mills
		333414	Heating Equipment (except Warm Air Furnaces) Manufacturing
		333999	All Other Miscellaneous General Purpose Machinery Manufacturing
3581	Automatic Vending Machines	333318	Other Commercial and Service Industry Machinery Manufacturing
3582	Commercial Laundry, Dry Cleaning, and Pressing Machines	333318	Other Commercial and Service Industry Machinery Manufacturing
3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
		336390	Other Motor Vehicle Parts Manufacturing
3586	Measuring and Dispensing Pumps	333914	Measuring, Dispensing, and Other Pumping Equipment Manufacturing
3589	Service Industry Machinery, Not Elsewhere Classified	333318	Other Commercial and Service Industry Machinery Manufacturing
3592	Carburetors, Pistons, Piston Rings, and Valves	336310	Motor Vehicle Gasoline Engine and Engine Parts Manufacturing
3593	Fluid Power Cylinders and Actuators	333995	Fluid Power Cylinder and Actuator Manufacturing
3594	Fluid Power Pumps and Motors	333996	Fluid Power Pumps and Motor Manufacturing
3596	Scales and Balances, Except Laboratory	333997	Scale and Balance Manufacturing
3599	Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified	332710	Machine Shops
		332813	Electroplating, Plating, Polishing, Anodizing and Coloring
		332999	All Other Miscellaneous Fabricated Metal Product Manufacturing
		333318	Other Commercial and Service Industry Machinery Manufacturing
		333999	All Other Miscellaneous General Purpose Machinery Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		334519	Other Measuring and Controlling Device Manufacturing
		336390	All Other Motor Vehicle Parts Manufacturing
3711	Motor Vehicles and Passenger Car Bodies	336111	Automobile Manufacturing
		336112	Light Truck and Utility Vehicle Manufacturing
		336120	Heavy Duty Truck Manufacturing
		336211	Motor Vehicle Body Manufacturing
		336992	Military Armored Vehicle, Tank, and Tank Component Manufacturing
3713	Truck and Bus Bodies	336211	Motor Vehicle Body Manufacturing
3714	Motor Vehicle Parts and Accessories	336211	Motor Vehicle Body Manufacturing
		336310	Motor Vehicle Gasoline Engine and Engine Parts Manufacturing
		336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing
		336330	Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing
		336340	Motor Vehicle Brake System Manufacturing
		336350	Motor Vehicle Transmission and Power Train Parts Manufacturing
		336390	Other Motor Vehicle Parts Manufacturing
3715	Truck Trailers	336212	Truck and Trailer Manufacturing
3716	Motor Homes	336213	Motor Home Manufacturing
3721	Aircraft	336411	Aircraft Manufacturing
3724	Aircraft Engines and Engine Parts	336412	Aircraft Engine and Engine Parts Manufacturing
3728	Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified	332912	Fluid Power Valve and Hose Fitting Manufacturing
		336411	Aircraft Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		336413	Other Aircraft Part and Auxiliary Equipment Manufacturing
3743	Railroad Equipment	333914	Measuring, Dispensing, and Other Pumping Equipment Manufacturing
		336510	Railroad Rolling Stock Manufacturing
3751	Motorcycles, Bicycles, and Parts	336991	Motorcycle, Bicycle, and Parts Manufacturing
3761	Guided Missiles and Space Vehicles	336414	Guided Missile and Space Vehicle Manufacturing
3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts	336415	Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing
3769	Guided Missile and Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified	336419	Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
3792	Travel Trailers and Campers	336214	Travel Trailer and Camper Manufacturing
3795	Tanks and Tank Components	336992	Military Armored Vehicle, Tank, and Tank Component Manufacturing
3799	Transportation Equipment, Not Elsewhere Classified	333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
		336214	Travel Trailer and Camper Manufacturing
		336390	Other Motor Vehicle Parts Manufacturing
		336999	All Other Transportation Equipment Manufacturing

SECTOR AC: ELECTRONIC, ELECTRICAL, PHOTOGRAPHIC, AND OPTICAL GOODS

SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3571	Electronic Computers	334111	Electronic Computer Manufacturing
3572	Computer Storage Devices	334112	Computer Storage Device Manufacturing
3575	Computer Terminals	334118	Computer Terminal and Other Computer Peripheral Equipment Manufacturing
3577	Computer Peripheral Equipment, Not Elsewhere Classified	333316	Photographic and Photocopying Equipment Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		334118	Computer Terminal and Other Computer Peripheral Equipment Manufacturing
		334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing
		334613	Blank Magnetic and Optical Recording Media Manufacturing
3578	Calculating and Accounting Machines, Except Electronic Computers	333316	Photographic and Photocopying Equipment Manufacturing
		333318	Other Commercial and Service Industry Machinery Manufacturing
		334118	Computer Terminal and Other Computer Peripheral Equipment Manufacturing
3579	Office Machines, Not Elsewhere Classified	333318	Other Commercial and Service Industry Machinery Manufacturing
		334519	Other Measuring and Controlling Device Manufacturing
		339940	Office Supplies (except Paper) Manufacturing
3612	Power, Distribution, and Specialty Transformers	335311	Power, Distribution, and Specialty Transformer Manufacturing
3613	Switchgear and Switchboard Apparatus	335313	Switchgear and Switchboard Apparatus Manufacturing
3621	Motors and Generators	335312	Motors and Generator Manufacturing
3624	Carbon and Graphite Products	335991	Carbon and Graphite Product Manufacturing
3625	Relays and Industrial Controls	335314	Relay and Industrial Control Manufacturing
3629	Electrical Industrial Apparatus, Not Elsewhere Classified	335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing
3631	Household Cooking Equipment	335220	Major Household Appliance Manufacturing
3632	Household Refrigerators and Home and Farm Freezers	335220	Major Household Appliance Manufacturing
3633	Household Laundry Equipment	335220	Major Household Appliance Manufacturing
3634	Electric Housewares and Fans	333414	Heating Equipment (except Warm Air Furnaces) Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		335210	Small Electrical Appliance Manufacturing
		339999	All Other Miscellaneous Manufacturing
3635	Household Vacuum Cleaners	335210	Small Electrical Appliance Manufacturing
3639	Household Appliances, Not Elsewhere Classified	333249	Other Industrial Machinery Manufacturing
		335210	Small Electrical Appliance Manufacturing
		335220	Major Household Appliance Manufacturing
3641	Electric Lamp Bulbs and Tubes	335110	Electric Lamp Bulbs and Part Manufacturing
3643	Current-Carrying Wiring Devices	335931	Current-Carrying Wiring Device Manufacturing
3644	Noncurrent-Carrying Wiring Devices	332216	Saw Blade and Handtool Manufacturing
		335932	Noncurrent-Carrying Wiring Device Manufacturing
3645	Residential Electric Lighting Fixtures	335121	Residential Electric Lighting Fixture Manufacturing
3646	Commercial, Industrial, and Institutional Electric Lighting Fixtures	335122	Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing
3647	Vehicular Lighting Equipment	336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing
3648	Lighting Equipment, Not Elsewhere Classified	335129	Other Lighting Equipment Manufacturing
3651	Household Audio and Video Equipment	334310	Audio and Video Equipment Manufacturing
3652	Phonograph Records and Prerecorded Audio Tapes and Disk	334614	Software and Other Prerecorded Compact Disc, Tape, and Record Reproducing
		512250	Record Production and Distribution
3661	Telephone and Telegraph Apparatus	334210	Telephone Apparatus Manufacturing
		334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing
3663	Radio and Television Broadcasting and Communications Equipment	334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals
3669	Communications Equipment, Not Elsewhere Classified	334290	Other Communications Equipment Manufacturing
3671	Electron Tubes	334419	Other Electronic Component Manufacturing
3672	Printed Circuit Boards	334412	Bare Printed Circuit Board Manufacturing
3674	Semiconductors and Related Devices	334413	Semiconductor and Related Device Manufacturing
3675	Electronic Capacitors	334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing
3676	Electronic Resistors	334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing
3677	Electronic Coils, Transformers, and Other Inductors	334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing
3678	Electronic Connectors	334417	Electronic Connector Manufacturing
3679	Electronic Components, Not Elsewhere Classified	334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
		334310	Audio and Video Equipment Manufacturing
		334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing
		334419	Other Electronic Component Manufacturing
		334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals
3691	Storage Batteries	335911	Storage Battery Manufacturing
3692	Primary Batteries, Dry and Wet	335912	Primary Battery Manufacturing
3694	Electrical Equipment for Internal Combustion Engines	336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing
3695	Magnetic and Optical Recording Media	334613	Blank Magnetic and Optical Recording Media Manufacturing
3699	Electrical Machinery, Equipment, and Supplies, Not Elsewhere	333318	Other Commercial and Service Industry Machinery Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
		333618	Other Engine Equipment Manufacturing
		333992	Welding and Soldering Equipment Manufacturing
		335129	Other Lighting Equipment Manufacturing
		335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing
3812	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments	334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
3821	Laboratory Apparatus and Furniture	333249	Other Industrial Machinery Manufacturing
		333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
		333994	Industrial Process Furnace and Oven Manufacturing
		333997	Scale and Balance Manufacturing
		333999	All Other Miscellaneous General Purpose Machinery Manufacturing
		337127	Institutional Furniture Manufacturing
		339113	Surgical Appliance and Supplies Manufacturing
3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances	334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use
3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products	334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables
3824	Totalizing Fluid Meters and Counting Devices	334514	Totalizing Fluid Meter and Counting Device Manufacturing
3825	Instruments for Measuring and Testing of Electricity and Electrical Signals	334514	Totalizing Fluid Meter and Counting Device Manufacturing
		334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3826	Laboratory Analytical Instruments	334516	Analytical Laboratory Instrument Manufacturing
3827	Optical Instruments and Lenses	333314	Optical Instruments and Lens Manufacturing
3829	Measuring and Controlling Devices, Not Elsewhere Classified	334514	Totalizing Fluid Meter and Counting Device Manufacturing
		334519	Other Measuring and Controlling Device Manufacturing
		339112	Surgical and Medical Instrument Manufacturing
3841	Surgical and Medical Instruments and Apparatus	332994	Small Arms, Ordnance, and Ordnance Accessories Manufacturing
		333249	Other Industrial Machinery Manufacturing
		333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
		333994	Industrial Process Furnace and Oven Manufacturing
		333997	Scale and Balance Manufacturing
		333999	All Other Miscellaneous General Purpose Machinery Manufacturing
		337127	Institutional Furniture Manufacturing
		339112	Surgical and Medical Instrument Manufacturing
		339113	Surgical Appliance and Supplies Manufacturing
3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies	322291	Sanitary Paper Product Manufacturing
		334510	Electromedical and Electrotherapeutic Apparatus Manufacturing
		339113	Surgical Appliance and Supplies Manufacturing
		339999	All Other Miscellaneous Manufacturing
3843	Dental Equipment and Supplies	339114	Dental Equipment and Supplies Manufacturing
3844	X-Ray Apparatus and Tubes and Related Irradiation Apparatus	334517	Irradiation Apparatus Manufacturing

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SIC Code	SIC Code Description	2017 NAICS Code	NAICS Code Description
3845	Electromedical and Electrotherapeutic Apparatus	334510	Electromedical and Electrotherapeutic Apparatus Manufacturing
		334517	Irradiation Apparatus Manufacturing
3851	Ophthalmic Goods	339113	Surgical Appliance and Supplies Manufacturing
		339115	Ophthalmic Goods Manufacturing
3861	Photographic Equipment and Supplies	325992	Photographic Film, Paper, Plate, and Chemical Manufacturing
		333316	Photographic and Photocopying Equipment Manufacturing
3873	Watches, Clocks, Clockwork Operated Devices, and Parts	334519	Other Measuring and Controlling Device Manufacturing

SECTOR AD: MISCELLANEOUS INDUSTRIAL ACTIVITIES

Activity Codes and Description of Industry

Limited to facilities that are designated by the executive director as needing a permit to control pollution related to stormwater discharges and that do not meet the description of an industrial activity covered by Sectors A-AC.

B. Procedures for Obtaining Permit Coverage

1. Except as described in Section IX.B.(2) below, facilities eligible for coverage under the proposed general permit would apply for coverage through submission of a notice of intent (NOI) to the Executive Director. Facilities seeking to obtain an exclusion from permit requirements based on a condition of no exposure would notify the TCEQ through submission of a No Exposure Certification (NEC) form to the Executive Director. NOTE: An NEC is effectively an alternate NOI for facilities eligible to claim a no-exposure exclusion.
2. The NOI or NEC must be signed in accordance with 30 TAC §305.44 (relating to Signatories to Application). Electronic submittal of NOIs or NECs through the STEERs system is required, and coverage begins immediately upon receiving electronic notification from TCEQ. If obtaining a waiver from electronic reporting paper applications may be submitted, in which case, provisional authorization to discharge would begin 48 hours after a completed NOI or NEC is postmarked for delivery to the TCEQ.
3. Designation of Permit Coverage (Automatic Authorization):
 - a. The following facilities are designated by TCEQ as requiring coverage under the MSGP, but are not required to submit an NOI for coverage, provided that certain conditions are met:

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- i. Facilities that are regulated based on their primary SIC code or industrial activity code, and that occur completely within a residential home, a shopping mall, or an office building, and that have no exposure of any regulated activity to stormwater;
 - ii. Publishing and designing companies that do not perform printing activities and that have no exposure of any regulated activity to stormwater; and
 - iii. General warehousing and storage facilities described by SIC Code 4225 that have no exposure of industrial activity to stormwater, and that have no areas used for vehicle and equipment maintenance activities, vehicle and equipment rehabilitation, mechanical repairs, painting, fueling and lubrication, and cleaning.
- b. The above-referenced facilities will be notified of their coverage under the general permit as part of the public notice for the draft permit, which is appropriate based on EPA rules at 40 CFR §122.28(b)(2)(vi), relating to General Permits. These designated facilities are not required to submit an NOI for coverage, but must meet the following permit requirements:
- i. Maintain a condition which ensures that there is no exposure of industrial activities to stormwater; and
 - ii. Comply with the Standard Permit Conditions, except that references to the submittal of an NOI are not applicable.

The facility operator must apply for coverage if any of the above requirements are not met. If the TCEQ determines that additional controls are required other than those listed above, or that there is a concern regarding the discharge of elevated levels of pollutants, then the TCEQ may require a facility operator to meet all permit conditions and obtain coverage through submittal of an NOI or an individual permit application. This permit condition is appropriate for the designated facilities, because they typically operate in such a way that industrial materials are not exposed to stormwater, and stormwater discharges are not expected to contain pollutants of concern. However, the Executive Director also recognizes that activities may occur at the site that do cause a water quality concern, and an NOI or an individual permit application may be required at any time

4. Review of Application: Following an administrative review of an NOI or NEC, the Executive Director will either confirm coverage (or conditional exclusion, as applicable) by providing a notification and an authorization number to the applicant or will deny coverage. If coverage is denied, then the operator must either submit an application for an individual permit or obtain coverage under an alternative general permit, if available. Submittal of the NOI or NEC is an acknowledgment by the applicant that the general permit applies to the proposed discharges and that the applicant agrees to comply with the terms of the permit.

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5. Deadlines for Obtaining Coverage:
 - a. Existing Facilities: Facilities that have coverage under the existing TPDES MSGP must re-apply within 90 days of the permit effective date to maintain continued coverage under the renewed general permit and to retain the existing authorization number.

Existing facilities that were not provisionally authorized by the existing TPDES MSGP must apply immediately.

Existing facilities that do not submit NOIs or NECs within 90 days of permit issuance will automatically be cancelled. Any forms submitted after the deadline will be processed as new applications, and a new authorization number will be assigned.
 - b. New Facilities: Facilities which are new or which were not previously authorized under the existing MSGP must submit an NOI (or an NEC, if applicable) prior to the initiation of industrial activity that could result in a discharge of regulated stormwater runoff.
6. Information to be Submitted on an NOI or NEC form:

The NOI form requires, at a minimum, the following information:

 - a. Operator Information: legal name and contact information
 - b. Site Information:
 - (1) Location (name, address, county, latitude / longitude).
 - (2) Location of outfalls.
 - (3) A determination of whether the site is located on Indian Land.
 - (4) The name of the receiving water(s).
 - (5) The name of the MS4 operator, if the discharge is first to an MS4.
 - (6) Appropriate certification statement (for NOIs, a certification statement that a SWP3 has been developed and implemented according to the provisions of the permit; and for NECs, a certification that the facility meets a condition of no exposure as required in the MSGP).
 - (7) The primary SIC code and any other SIC code(s) or Industrial Activity Code(s) that describe additional activities that are identified in the permit as requiring permit coverage.
 - (8) Industrial activities of the facility that are subject to federal effluent limitations guidelines.
 - (9) The industrial sector(s) of the general permit that applies to the facility.
 - (10) If discharging a pollutant of concern to an impaired waterbody.

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(11) If applicable, waiver criteria from sampling for hazardous metals are updated and met.

(12) Status of the facility (inactive or active).

c. The existing TPDES authorization number (or no exposure authorization number) for existing facilities seeking to renew coverage (or the conditional exclusion from coverage)

d. An original signature, signed according to 30 TAC §305.44 (relating to Signatories to Application).

C. Terminating Permit Coverage

A permittee may terminate coverage under the proposed permit or may terminate a no exposure authorization by submitting a notice of termination (NOT) form to the Executive Director. The NOT must be signed in accordance with 30 TAC §305.44 (relating to Signatories to Application). Authorization to discharge terminates immediately following confirmation of receipt of the electronic NOT form by the TCEQ. If a paper NOT is submitted, authorization to discharge terminates at midnight on the day that a NOT is postmarked for delivery to the TCEQ. An NOT must be submitted within 10 days after the potential to discharge stormwater associated with industrial activity has ceased or the operator obtains coverage under an individual permit or alternative general permit. See the following paragraph for a discussion on no exposure, and see paragraph D. below for information on how to process a transfer of operational control.

Changing Condition Related to Exposure: An NOT must also be submitted in order to terminate coverage or to terminate a conditional exclusion based on no exposure. If a facility changes operations such that a condition of no exposure is obtained, then the permittee must submit an NOT to terminate the original NOI before submitting an NEC. If a facility which changes conditions such that a condition of no exposure no longer exists, the permittee must submit an NOT to terminate the conditional exclusion, and must obtain coverage before discharge occurs. The only exception to this is within the first 90 days of permit issuance. If a permittee does not submit an NOT within the first 90 days of permit issuance, then the existing NOI or NEC will automatically be terminated, as stated above in Part IX.B.(1) of this fact sheet.

D. Transfer of Permit Coverage

Permit coverage may not be transferred. When a new operator assumes responsibility for a facility, a new NOI must be submitted at least 10 days before taking operational control of the facility. The previous owner or operator must terminate permit coverage within 10 days prior to the transfer of ownership or responsibility. This timeframe is required by 30 TAC §210.4(h).

E. Public Involvement

Information on the ability for the public to participate in the development and issuance of the MSGP is discussed in Part XIII of this fact sheet, *Procedures for Final Decision*.

In general, coverage is considered nonprovisional upon submittal of an application or upon meeting requirements to obtain authorization without submitting an application.

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Because MSGP authorizations are acted on by the Executive Director of the TCEQ, a person who does not agree with the action may file a motion to overturn the authorization, or decision, within 23 days after the application is deemed approved (See 30 TAC §50.139, related to Motion to Overturn Executive Director's Decision). In addition, any interested person may petition the Executive Director to require a discharger authorized by a general permit to apply for and obtain an individual TPDES permit. (See 40 CFR §122.28(b)(3)(i), which was adopted by TCEQ at 30 TAC §205.7). Examples of factors that may require a discharger to obtain an individual permit include: noncompliance with the conditions of the general permit; a change in operations since the initial application was made so that the discharger is no longer appropriately controlled under the general permit, or the discharge(s) is a significant contributor of pollutants.

X. Technology-Based Requirements

A. Stormwater Pollution Prevention Plan (SWP3)

The draft general permit continues the requirement to develop and implement a SWP3 to control discharges of contact stormwater and stormwater associated with industrial activities, in accordance with NPDES stormwater regulations at 40 CFR §122.26 (b)(14)(viii), and as adopted by reference in 30 TAC Chapter 281 (relating to Applications Processing).

A SWP3 is required to be prepared and implemented for each facility covered by this permit. However, the permit also provides for shared SWP3s for collocated facilities (e.g., tenants at an industrial complex or airport). The plan must identify potential sources of pollution that may reasonably be expected to affect the quality of the discharges. The plan must describe the BMPs that are used to reduce the pollutants in stormwater, ensure the implementation of these practices, and ensure compliance with the terms and conditions of the general permit. Permittees must implement the provisions of the SWP3 as a condition of the general permit.

The draft general permit also requires that the permittees amend the plan whenever there is a change in design, construction, operation, or maintenance that has a significant effect on the potential for the discharge of pollutants to water in the state, or if the SWP3 proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified in the contents of the SWP3, or in otherwise achieving the general objectives of controlling pollutants in the stormwater discharges.

The draft permit includes specific provisions which must be incorporated into a SWP3. These include, at a minimum, the following elements:

1. Establishing a pollution prevention team to oversee development and implementation of the stormwater pollution prevention plan;
2. Investigating and eliminating non-stormwater discharges that are not covered under the authority of the proposed general permit or a separate individual permit;
3. Identifying potential pollutants and sources of pollution to stormwater runoff;

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4. Establishing pollution prevention measures and controls, including good housekeeping measures and other BMPs;
5. Considering the management of runoff using BMPs such as structural controls and discharge minimization to protect the natural physical characteristics of receiving waters; and
6. Evaluating the effectiveness of the SWP3 through inspections.

B. Numeric Effluent Limitations

The draft general permit would continue the numeric effluent limitations of the current permit. The MSGP includes technology-based numeric effluent limitations for discharges subject to federally established guidelines delineated in the Code of Federal Regulations as well as technology-based numeric effluent limitations that are listed in state rules for hazardous metals. The technology-based numeric effluent limitations are proposed as follows:

1. For All Discharges - Limitations for hazardous metals delineated at 30 TAC Chapter 319 (General Regulations Incorporated into Permits), Subchapter B (Hazardous Metals). A waiver from these effluent limits will continue to be available in the proposed MSGP for one (1) or more of the regulated metals if any of the following criteria are met:
 - a. the permittee certifies that the regulated facility does not use a raw material, produce an intermediate product, or produce a final product that contains the hazardous metal(s) for which the waiver is being sought; or
 - b. the permittee certifies that any raw materials, intermediate products, or final products that contain any hazardous metal(s) are never exposed to stormwater or runoff, except that final products are not considered to expose hazardous metals to stormwater or runoff if the final product is designed for outdoor use, unless it is a product that could be transported by stormwater runoff or unless the final product will be used as a material or intermediate product (similar to the considerations for "no exposure" described in Paragraph III.B.1. of this fact sheet); or
 - c. the permittee collects a sample of the discharge from the facility, analyzes the sample for the hazardous metal(s) for which a waiver is being sought, and the results indicate that the metal(s) is/are not present in detectable levels based on the minimum analytical level (MAL).
2. For Industry-Specific Discharges Subject to Federal Categorical Effluent Limitations Guidelines (ELGs): Refer to Paragraphs IV.A.1.a through g of this fact sheet.

C. Benchmark Monitoring Requirements

The current TPDES MSGP continues a requirement from EPA's 1995 MSGP and TCEQ's 2001, 2006, 2011, and 2016 MSGP for certain industries to monitor for one or more specific pollutants that are generally associated with discharges from those industries. The results are then compared to a set of benchmark values to determine the relative

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effectiveness of the SWP3. The draft general permit retains this requirement as a method for evaluating the facility's SWP3, but includes some modifications.

1. Monitoring Frequency

The current MSGP requires permittees to conduct semiannual benchmark monitoring throughout the permit term, and reported by March 31st of each year following the monitoring year. The existing permit includes a waiver option, which had previously been available in the 2011 and 2016 MSGP as well as in each version of EPA's MSGP. Requiring benchmark sampling allows all facilities subject to benchmark monitoring to use the data collected to ascertain whether their BMPs are continuing to be effective, and also helps TCEQ determine whether longer term trends could be established.

For this proposed MSGP, the E.D. is proposing to continue requiring benchmark monitoring semiannually during the four (4) permit years following the permit effective date, and the draft permit offers an opportunity for a facility operator to obtain a waiver from benchmark sampling. This waiver would be available for sampling years 3 and 4 if annual average sampling results for the first two (2) permit years are less than the benchmark levels. However, a waiver would not be available for any pollutant where the annual average result measured equal to or greater than the benchmark level.

2. Levels for Specific Pollutants

The levels and parameters for benchmarks in the current 2016 MSGP are based on results of benchmark values submitted to the TCEQ in calendar years 2011 to 2014. The benchmark levels proposed in the draft 2021 MSGP are based on analysis of benchmark results submitted to TCEQ during calendar years 2017 to 2019.

The results of the compiled data are described in Appendix A of this fact sheet. Based on the results, changes were made to the benchmark levels of the following pollutants: Biochemical oxygen demand (BOD), and total suspended solids (TSS). The changes should provide permittees with benchmark levels that will be helpful in determining whether their BMPs are effectively reducing the level of pollutants in runoff associated with industrial activity, and how they compare with results of other dischargers.

Explanation of Revisions to Benchmark Monitoring Levels:

- a. Levels for the following pollutants were lowered from the 2016 levels based on the results of the benchmark monitoring in years 2017 through 2019:

Lowered Total Suspended Solids (TSS) values from 100 mg/L to 50 mg/L for sector U (SIC codes 2074 – 2079). Lowered Biochemical Oxygen Demand (BOD) values from 20 mg/L to 15 mg/L for Sector T (Activity code TW)

- b. There were no changes to the following pollutants, either because the original benchmark is appropriate to continue based on the fact that it is

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founded on data suggesting that the existing level is appropriate for stormwater runoff, or a sufficient number of sample points were not available to justify a change: total aluminum, total antimony, total arsenic, total beryllium, total cadmium, total copper, total cyanide total iron, total lead, total magnesium, total mercury, total nickel, nitrate-nitrite- nitrogen, total phosphorous, total selenium, total silver, total zinc, turbidity, oil and grease, and pH.

XI. Water Quality-Based Requirements

The Texas Surface Water Quality Standards (TSWQS) are located at 30 TAC Chapter 307, and state that “surface waters will not be toxic to man, or to terrestrial or aquatic life.” The methodology outlined in the *Procedures to Implement the Texas Surface Water Quality Standards*, RG-194 (January 2003) is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater which: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation which threatens human health.

TPDES permits contain technology-based effluent limits reflecting the best controls available. Where these technology-based permit limits do not protect water quality or the designated uses, additional conditions are included in the TPDES permits, which may include discharge limitations. State narrative and numerical water quality standards are used in conjunction with EPA criteria and other toxicity data bases to determine the adequacy of technology-based permit limits and the need for additional water-quality based controls.

TPDES stormwater permits generally do not contain numeric water-quality-based effluent limits (WQBELs). As stated in 30 TAC §307.8(e), controls on the quality of permitted stormwater discharges are largely based on implementing BMPs or technology-based limits in combination with instream monitoring to assess standards attainment and to determine whether additional controls on stormwater are needed. Properly implemented BMPs should preclude adverse water quality impacts that would impair designated uses or violate water quality standards. It has been preliminarily determined that if permit requirements are properly implemented, no significant degradation is expected and existing uses will be maintained and protected.

In certain situations, and to insure that water quality standards are being met, the TCEQ may require an individual stormwater permit of any discharger otherwise eligible for coverage under the MSGP. Examples include: a history of substantive noncompliance with the MSGP, requirements of a TMDL and Implementation Plan, or other site-specific considerations.

XII. Monitoring

Monitoring requirements are being continued from the existing permit based on TCEQ rules, TCEQ practice, EPA's existing NPDES MSGP, and best professional judgment (BPJ). Federal rules 40 CFR §122.44(i) require monitoring to be conducted for each pollutant limited in a permit to assure compliance with the permitted effluent limitations. The frequency of this monitoring may be established on a case-by-case basis, but must not be less than once per year.

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The draft general permit continues the requirement to report annually all sampling results for discharges that are subject to categorical effluent limits at 40 CFR Subpart N. This is consistent with federal rules at 40 CFR §122.44(i)(3). In addition, the draft general permit would continue the requirement to report all *violations* of non-categorical effluent limits (i.e., state-based limits) once per year, which is consistent with 40 CFR §122.44(i)(4). Results of analyses would be completed on DMR forms, and reported as described above.

XIII. Procedures for Final Decision

The MOA between the EPA and TCEQ provides that EPA has no more than 90 days to comment, object, or make recommendations to the draft general permit before it is published in the Texas Register. According to 30 TAC Chapter 205, when the draft general permit is proposed, notice must be published, at a minimum, in at least one newspaper of statewide or regional circulation. The commission may also publish notice in additional newspapers of statewide or regional circulation. Mailed notice must also be provided to the following:

- A. the county judge of the county or counties in which the discharges under the general permit could be located;
- B. if applicable, state and federal agencies for which notice is required in 40 CFR §124.10(c);
- C. persons on a relevant mailing list kept under 30 TAC §39.407, relating to Mailing Lists; and
- D. any other person the Executive Director or chief clerk may elect to include.

After notice of the general permit is published in the *Texas Register* and the newspaper(s), the public will have 30 days to provide public comment on the proposed permit.

Any person, agency, or association may make a request for a public comment hearing on the proposed general permit to the Executive Director of the TCEQ before the end of the public comment period. A public comment hearing will be granted when the Executive Director or commission determines, on the basis of requests, that a significant degree of public interest in the draft general permit exists. A public comment hearing is intended for the taking of public comment, and is not a contested case proceeding under the Administrative Procedure Act. The Executive Director may call and conduct public meetings in response to public comment.

If the Executive Director calls a public meeting, the commission will give notice of the date, time, and place of the meeting, as required by commission rule. The Executive Director shall prepare a response to all significant public comments on the draft general permit raised during the public comment period. The Executive Director shall make the response available to the public. The general permit will then be filed with the commission to consider final authorization of the permit. The Executive Director's response to public comment shall be made available to the public and filed with the chief clerk at least ten (10) days before the commission acts on the general permit.

Once the draft permit is completed, it is sent to the Office of the Chief Clerk of the TCEQ. The notice is published in the Texas Register, and the draft permit is placed on the Commission's agenda. For additional information about this general permit, contact the stormwater & Pretreatment Team at (512) 239-4671.

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XIV. Administrative Record

The following section is a list of the fact sheet citations to applicable statutory or regulatory provisions and appropriate supporting references.

A. 40 CFR Citations

40 CFR, including Parts 112, 122, 124, 136, 257, 258, 262, 263, 264, 265, 270, and Subchapter N (Parts 400-471, including 40 CFR Parts 403, 411, 418, 419, 423, 429, 434, 443, 436, 437, 440, 443, 445, 449, and 450)

B. Letters/ Memoranda/ Records of Communication

- Stormwater Stakeholder Meeting – October 18, 2019
- Water Quality Standards Review memo– XXXX, 2020
- TMDL Review memo – XXX, 2020

C. Miscellaneous

1. TPDES Multi-Sector General Permit (MSGP) TXR050000, issued July 13, 2016, and effective August 14, 2016.
2. Quality Criteria for Water (1986), EPA 440/5-86-001, 5/1/86.
3. The State of Texas Water Quality Inventory, 13th Edition, Publication No. SFR-50, Texas Natural Resource Conservation Commission, December 1996.
4. Texas Surface Water Quality Standards - 30 TAC Sections 307.1-307.10, effective February 12, 2014, as approved by EPA Region 6.
5. *Procedures to Implement the Texas Surface Water Quality Standards*, Texas Commission on Environmental Quality, Publication RG-194, June 2010, as approved by EPA Region 6.
6. *Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits*, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
7. *General Guidance Industrial Permits for stormwater Runoff Associated With Industrial Activity*, EPA Region 6, March 22, 1999.
8. TCEQ Rules, including: 30 TAC Chapters 39, 50, 205, 213, 281, 305, 307, 309, 311, 319, 327, 330, 332, and 335.
9. Standard Industrial Classification Manual, United States Office of Management and Budget, 1987.
10. 2016 Texas 303(d) List, Texas Commission on Environmental Quality, October 17, 2018 (approved by EPA on August 6, 2019).
11. 2016 Texas Integrated Report, Texas Commission on Environmental Quality, October 17, 2018 (approved by EPA on August 6, 2019).
12. *Development Document for Final Effluent Limitations Guidelines and Standards for the Landfills Point Source Category*, U.S. EPA Publication Number EPA-821-R-99-019, January 2000.
13. *Guidance Manual for Conditional No Exposure from stormwater Permitting Based on 'No Exposure' of Industrial Activities to stormwater*, U.S. EPA Office of Water, Publication Number EPA 833-B-00-001, June, 2000.

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14. *Conditional No-Exposure Exclusion for stormwater Runoff: A Guide for Industries Operating under the TPDES Multi-Sector General Permit, TXR050000*, TCEQ Small Business and Environmental Assistance Division, Regulatory Guidance, RG-467, November, 2016.
15. *NPDES stormwater Program Question and Answer Document, Volume 1*, U.S. EPA, 1993.

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Appendix A - Benchmark Sampling

Methods Used to Evaluate Data

The benchmark monitoring information submitted by the permitted entities from 2016-2019 was compiled in a spreadsheet. The data were divided by industrial sectors, then further into individual standard industrial classification (SIC) codes or industrial activity (AI) codes. If a benchmark result was reported as a zero or not detected (ND), the minimum analytical level (MAL) was entered as a result. If a benchmark result was reported as not sampled, not analyzed, or no qualifying rain event (NQRE), failed to sample was entered.

Data were analyzed by the type of pollutant for each group based on industry. Descriptive statistics were conducted for the following parameters: count, median, range, minimum and maximum values, standard error, standard deviation, kurtosis, skewness, quartiles, and outliers. Median was the parameter used for central tendency. The range or spread, skewness, kurtosis, quartiles, and outliers were examined to further understand data distribution. Data variability was described using standard error and standard deviation. Interquartile range was calculated and used for determining minor and major outliers (using a multiplier of 1.5 and 3 to the interquartile range, respectively). Outliers were not removed from the dataset. Additionally, these data were compared to the previous permit term data analysis to examine the consistency of data over time and to see if temporal trends in the data exist.

Proposed changes to the benchmarks were determined by comparing median pollutant values to the 2016 benchmarks. Median values with a deviation of 40% or greater were considered for benchmark changes (see Table 1). This 40% deviation is consistent with the standard used to determine noncompliance in permit effluent limitations.

Summary of Results

Overall, data were not distributed normally, data were variable with outliers present. The ranges of most dataset's data were large, often due to extreme values (outliers). Distribution lacked symmetry. Statistical tests comparing permit years were not conducted, although data were graphed at both pollutant and sector level for better data visualization. There were no data submitted for six pollutants (antimony, beryllium, manganese, nickel, oil and grease, and turbidity).

Of the 25 benchmark pollutants, changes were proposed for two (see Table 2). Biochemical Oxygen Demand (BOD) was proposed to be lowered from 20 to 15 mg/L. The proposed BOD limit was above both the median and mean values and well above the third quartile. Total Suspended Solids (TSS) was proposed to be lowered from 100 to 50 mg/L for Sector U SIC Codes 2074-2079. This value was above the median value for this group. A summary of data for each pollutant by industry sector and SIC code is provided in Table 3.

Table 1. Comparisons in percent differences between 2016 benchmarks, 2021 medians, and the percent difference in 2021 median to 2016 benchmark.

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Pollutant Type	2016 Benchmark	2021 Median	Median-Benchmark % Difference
Aluminum, total	1.2 mg/L	0.934	-22.17
Ammonia-Nitrogen	1.7 mg/L	0.17	-90.00
Antimony, total*	0.636 mg/L	-	-
Arsenic, total ²	0.01 mg/L	0.00419	-58.10
Beryllium, total*	0.13 mg/L	-	-
BOD ₅	20.0 mg/L	5	-75.00
Cadmium, total	0.001 mg/L	0.00063	-37.00
COD	60.0 mg/L	47.5	-20.83
Copper, total	0.03 mg/L	0.03	0.00
Cyanide, total	0.02 mg/L	0.005	-75.00
Iron, total	1.3 mg/L	1.096	-15.69
Lead, total	0.01 mg/L	0.0075	-25.00
Magnesium, total	1.4 mg/L	1.78	27.14
Manganese, total*	1.0 mg/L	-	-
Mercury, total ²	0.0002 mg/L	0.00005	-75.00
Nickel, total*	1.417 mg/L	-	-
Nitrate + Nitrite Nitrogen	0.68 mg/L	0.51	-25.00
Oil & Grease*	10.0 mg/L	-	-
Phosphorus	1.25 mg/L	0.69	-44.80
pH	6.0-9.0 S.U.	7.7	22 to -17
Selenium, total ²	0.01 mg/L	0.001	-90.00
Silver, total ²	0.002 mg/L	0.00094	-53.00
TSS ¹	100.0 mg/L	49.5	-50.50
TSS ¹	50.0 mg/L	36.5	-27.00
Turbidity*	5 NTU	-	-
Zinc, total	0.16 mg/L	0.133	-16.88

*No data were collected

¹The TSS benchmark is 50 mg/L for portions of Sectors C (2812-2819 and 2873-2879), E (3251-3259 and 3271-3275), F (321-3325) and U (2041-2048), and for all SIC codes in Sectors A (except SIC 2434), D, H, J, O, Q, and AA in the 2016 MSGP.

²Sector G has different mg/L benchmark values (arsenic = 0.17 mg/L, mercury = 0.0019 mg/L, selenium = 0.05 mg/L, and silver = 0.0318 mg/L for waste, rock, and overburden piles.)

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Table 2. Multi-Sector General Permit proposed changes to the 2016 benchmarks for the 2021 permit (bolded rows indicate change).

Pollutant	2016 Benchmark Level	2016 Sectors Required to Monitor	2021 Proposed Level and Sectors to Monitor (Justification of Change)
Aluminum, total	1.2 mg/L	C, E, F, H, M, N, Q, AA	1.2 mg/L (no change in benchmark)
Ammonia-Nitrogen	1.7 mg/L	K, S	1.7 mg/L (no change in benchmark)
Antimony, total	0.636 mg/L	G	0.636 mg/L (no change in benchmark)
Arsenic, total	0.01* mg/L	A, G, K	0.01 mg/L (no change in benchmark)
Beryllium, total	0.13 mg/L	G	0.13 mg/L (no change in benchmark)
BOD₅	20mg/L	T	15 mg/L (Lowered to value 15 mg/L which is above the third quartile (75%), median, and average value.)
Cadmium, total*	.001 mg/L	G, K	0.001 mg/L (no change in benchmark)
COD, total	60 mg/L	A, B, G, K, N, S, U, AD	60 mg/L (no change in benchmark)
Copper, total	0.03 mg/L	A, F, G, N	0.03 mg/L (no change in benchmark)
Cyanide, total	0.02 mg/L	K	0.02 mg/L (no change in benchmark)
Iron, total	1.3 mg/L	C, E, F, G, H, L, M, N, O, Q, AA	1.3 mg/L (no change in benchmark)
Lead, total	0.01 mg/L	C, G, K, M, N, Q	0.01 mg/L (no change in benchmark)
Magnesium, total	1.4 mg/L	K	1.4 mg/L (no change in benchmark)
Manganese, total	1 mg/L	G	1 mg/L (no change in benchmark)
Mercury, total*	0.0002 mg/L	G, K	0.0002 mg/L (no change in benchmark)
Nickel, total	1.417 mg/L	G	1.417 mg/L (no change in benchmark)
Nitrate +Nitrite Nitrogen	0.68 mg/L	C, G, J, U, AA	0.68 mg/L (no change in benchmark)
Oil & Grease	10 mg/L	AD	10 mg/L (no change in benchmark)
Phosphorous	1.25 mg/L	C	1.25 mg/L (no change in benchmark)

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Pollutant	2016 Benchmark Level	2016 Sectors Required to Monitor	2021 Proposed Level and Sectors to Monitor (Justification of Change)
pH	6.0-9.0 S.U.	E,G, J, S, AD	6.0-9.0 S.U. (no change in benchmark)
Selenium, total	0.01* mg/L	G, K	0.01 mg/L (no change in benchmark)
Silver, total	0.002* mg/L	G, K	0.002 mg/L (no change in benchmark)
TSS	50 mg/L	A, C, D, E, F, H, J, O, Q, U, AA	50 mg/L (no change in benchmark)
TSS	100 mg/L	E, F, G, L, M, N, U, AD	50 mg/L (Lowered to 50 mg/L for Sector U, SIC 2074-2079. This value is above the median value for this SIC code)
Turbidity	5 NTU	G	5 NTU (no change in benchmark)
Zinc, total	0.16 mg/L	A, C, F, N, Q, Y, AA	0.16 mg/L (no change in benchmark)

*Sector G has different mg/L benchmark values (arsenic = 0.17, mercury = 0.0019, selenium = 0.05, and silver = 0.0318)

Table 3. Summary of benchmark monitoring data from 2016-2019 for each pollutant, sector, and SIC code.

Pollutant	Sector	SIC	Total Samples	Median (mg/L)	Current (2016) MSGP Benchmark (mg/L)	Median-Benchmark % Difference (mg/L)
Aluminum, total	C	2812-2819	112	1.153	1.2	-3.9
	E	3251-3259	28	3.01	1.2	150.8
	E	3262-3269	0	-	1.2	-
	F	3312-3317	33	0.857	1.2	-28.6
	F	3321-3325	29	0.73375	1.2	-38.9
	H	1221-1241	29	1.5	1.2	25.0
	M	5015	250	0.9345	1.2	-22.1
	N	5093	442	1.325	1.2	10.4
Q	4412-4499	69	1.005	1.2	-16.3	

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Pollutant	Sector	SIC	Total Samples	Median (mg/L)	Current (2016) MSGP Benchmark (mg/L)	Median-Benchmark % Difference (mg/L)
	AA	SIC 3411-3499 (except 3479), and 3911-3915	610	0.76605	1.2	-36.2
	Median of all samples		Total= 1602	1.005	1.2	-16.3
Ammonia-Nitrogen	K	HZ	45	0.161	1.7	-90.5
	S	4512-4581	1	0.20	1.7	-88.2
	Median of all samples		Total= 46	0.1805	1.7	-89.4
Arsenic, total	A	2491	20	0.01	0.01	0.0
	G	1011-1099	0	-	0.17	-
	K	HZ	46	0.00235	0.01	-76.5
	Median of all samples		Total= 66	0.00618	0.01	-38.3
BOD₅	T	TW	564	5.2	20.0	-74.0
	Median of all samples		Total= 564	5.2	20.0	-74.0
Cadmium, total	G	1011-1099	0	-	0.001	-
	K	HZ	46	0.00052	0.001	-48.5
	Median of all samples		Total= 46	0.00052	0.001	-48.5
COD	A	2421	39	49.16	60.0	-18.1
		2426, 2429, 2431-2439 (except 2434), 2441, 2448, 2449, 2451, 2452, 2493, and 2499	44	52	60.0	-13.3
	B	2631	12	58.2	60.0	-3.0
	G	1021	0	-	60.0	-
	K	HZ	46	33-3875	60.0	-44.4
	N	5093	435	51.25	60.0	-14.6
	S	4512-4581	1	124.35	60.0	107.3
	U	2074-2079	13	48.875	60.0	-18.5
	Median of all samples		Total= 590	51.25	60.0	-14.6
	Copper, total	A	2491	20	0.0779	0.03
F		3321-3325	29	0.0315	0.03	5.0
F		3351-3357	34	0.011	0.03	-63.3
F		3363-3369	7	0.0495	0.03	65.0
G		1011-1099	0	-	0.03	-
N		5093	436	0.03805	0.03	26.8
Median of all samples		Total= 526	0.03805	0.03	26.8	

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Pollutant	Sector	SIC	Total Samples	Median (mg/L)	Current (2016) MSGP Benchmark (mg/L)	Median-Benchmark % Difference (mg/L)
Cyanide, total	K	HZ	46	0.005	0.02	-75.0
	Median of all samples		Total= 46	0.005	0.02	-75.0
Iron, total	C	2812-2819	112	0.73765	1.3	-43.3
	C	2873-2879	79	1.04	1.3	-20.0
	E	3271-3275	126	0.687	1.3	-47.2
	F	3321-3325	29	1.45	1.3	11.5
	G	1011-1099	0	-	1.3	-
	H	1221-1241	28	1.3095	1.3	0.7
	L	LF	223	1.9575	1.3	50.6
	M	5015	252	0.96525	1.3	-25.8
	N	5093	441	1.7375	1.3	33.7
	O	SE	98	1.385	1.3	6.5
	Q	4412-4499	69	1.18	1.3	-9.2
	AA	SIC 3411-3499 (except 3479), and 3911-3915	611	0.9	1.3	-30.8
	Median of all samples		Total= 2068	1.18	1.3	-9.2
Lead, total	C	2873-2879	80	0.005	0.01	-50.0
	G	1011-1099	0	-	0.01	-
	K	HZ	46	0.0037	0.01	-63.0
	M	5015	253	0.00685	0.01	-31.5
	N	5093	437	0.015	0.01	50.0
	Q	4412-4499	67	0.0052	0.01	-48.0
	Median of all samples		Total= 883	0.0052	0.01	-48.0
Manganese, total	G	1011-1099	0	-	1.0	-
	Median of all samples		0	-	1.0	-
Magnesium, total	K	HZ	46	1.78	1.4	27.1
	Median of all samples		Total= 46	1.78	1.4	27.1
Mercury, total	G	1011-1099	0	-	0.0019	-
	K	HZ	45	0.00005	0.0002	-75.0
	Median of all samples		Total= 45	0.00005	0.0002	-75.0
Nickel, total	G	1011-1099	0	-	1.417	-
	Median of all samples		Total= 0	-	1.417	-
Nitrate + Nitrite Nitrogen	C	2812-2819	112	0.64	0.68	-5.9
	C	2841-2844	42	0.3405	0.68	-49.9
	C	2873-2879	79	1.0	0.68	47.1

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Pollutant	Sector	SIC	Total Samples	Median (mg/L)	Current (2016) MSGP Benchmark (mg/L)	Median-Benchmark % Difference (mg/L)
	G	1021	0	-	0.68	-
	J	1442 and 1446	132	0.395	0.68	-41.9
	U	2074-2079	13	0.363	0.68	-46.6
	AA	SIC 3411-3499 (except 3479), and 3911-3915	610	0.5175	0.68	-23.9
	AA	3479	93	0.51	0.68	-25.0
	Median of all samples		Total=1081	0.51	0.68	-25.0
Phosphorus	C	2873-2879	79	0.6925	1.25	-44.6
	Median of all samples		Total = 79	0.6925	1.25	-44.6
pH	E	3251-3259	28	7.55	6.0-9.0	-16.1-25.8
	E	3271-3275	78	7.8	6.0-9.0	-13.3-30.0
	G	1011-1099	0	-	6.0-9.0	-
	J	1411, 1422-1429, and 1481	77	7.9	6.0-9.0	-12.2-31.6
	S	4512-4581	1	7.7	6.0-9.0	-14.4-28.3
	Median of all samples		Total = 184	7.75	6.0-9.0	-13.8-29.1
Selenium, total	G	1011-1099	0	-	0.05	-
	K	HZ	46	0.0011	0.01	-89.0
	Median of all samples		Total=46	0.0011	0.01	-89.0
Silver, total	G	1011-1099	0	-	0.0318	-
	K	HZ	45	0.0005	0.002	-75.0
	Median of all samples		Total = 45	0.0005	0.002	-75.0
TSS	A	2411	18	14.5	50.0	-71.0
	A	2421	39	58.2	50.0	16.4
	A	2426, 2429, 2431-2439 (except 2434), 2441, 2448, 2449, 2451, 2452, 2493, and 2499	44	51	50.0	2.0
	C	2812-2819	112	30.635	50.0	-38.7
	C	2873-2879	75	52.8	50.0	5.6
	D	2951 and 2952	123	17.8	50.0	-64.4
	E	3251-3259	28	45.385	50.0	-9.2
	E	3262-3269	0	-	100.0	-
	E	3271-3275	129	34.3	50.0	-31.4
	F	3312-3317	33	72.0	100.0	-28.0

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Pollutant	Sector	SIC	Total Samples	Median (mg/L)	Current (2016) MSGP Benchmark (mg/L)	Median-Benchmark % Difference (mg/L)
	F	3321-3325	28	42.5	50.0	-15.0
	G	1021	0	-	100.0	-
	H	1221-1241	29	31.7	50.0	-36.6
	J	1411, 1422-1429, and 1481	79	123.5	50.0	147.0
	J	1442 and 1446	138	47.3	50.0	-5.4
	L	LF	224	68.125	100.0	-31.9
	M	5015	249	39.2	100.0	-60.8
	N	5093	435	55.0	100.0	-45.0
	O	SE	98	43.8	50.0	-12.4
	Q	4412-4499	68	53.9675	50.0	7.9
	U	2041-2048	83	53.3	50.0	6.6
	U	2074-2079	13	34.5	100.0	-65.5
	AA	SIC 3411-3499 (except 3479), and 3911-3915	606	29.475	50.0	-41.1
	Median of all samples		Total= 2651	45.385	50.0	-28.0
Turbidity	G	1011-1099	0	-	5 NTUs above background	-
	Median of all samples		Total= 0	-	5 NTUs above background	-
Zinc, total	A	2421	39	0.0446	0.16	-72.1
	C	2821-2824	73	0.1077	0.16	-32.7
	C	2841-2844	42	0.096	0.16	-40.0
	C	2873-2879	79	0.0445	0.16	-72.2
	F	3312-3317	33	0.14	0.16	-12.5
	F	3321-3325	29	0.19	0.16	18.8
	F	3351-3357	35	0.18	0.16	12.5
	F	3363-3369	7	0.174	0.16	8.7
	G	1011-1099	0	-	0.16	-
	N	5093	441	0.163	0.16	1.9
	Q	4412-4499	69	0.1646	0.16	2.9
	Y	3011	0	-	0.16	-
	Y	3021	0	-	0.16	-
	Y	3052-3053	10	0.20141	0.16	25.9
	Y	3061	8	0.83525	0.16	422.0
	Y	3069	10	0.07	0.16	-56.3
	AA	SIC 3411-3499 (except 3479), and 3911-3915	618	0.1145	0.16	-28.4

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Pollutant	Sector	SIC	Total Samples	Median (mg/L)	Current (2016) MSGP Benchmark (mg/L)	Median-Benchmark % Difference (mg/L)
	AA	3479	92	0.303	0.16	89.4
	Median of all samples		Total= 1585	0.163	0.16	1.9