

Annual Enforcement Report

Fiscal Year 2019

Part One: Report and Tables



Enforcement Division
Office of Compliance and Enforcement
Texas Commission on Environmental Quality

November 2019

**The electronic annual enforcement report is available on the TCEQ's Web Page at
<http://www.tceq.texas.gov/enforcement/reports/AER/annenfreport.html>**

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Introduction

During the 75th Legislative Session, House Bills (HB) 1133 and 1367 added Section (§) 5.126 to the Texas Water Code (TWC) that requires the Texas Commission on Environmental Quality (“TCEQ” or “Commission”) to prepare an electronic enforcement report each year by December 1. The law requires the Commission to report actions for each type of regulatory program. The report is to contain statistical indicators including the number of investigations, number of Notices of Violation (NOVs) issued, number of enforcement actions, type of enforcement actions, amount of penalties assessed, deferred, or collected; and any other information the Commission determines is relevant. The report must include a comparison of the TCEQ’s enforcement actions for each of the preceding five fiscal years. This report, the 23rd of its kind, includes information from fiscal years 2014-2019.

The Annual Enforcement Report has changed over the years to address legislative requirements. The 77th Legislative Session added requirements in TWC § 5.756 and re-codified § 5.123 as TWC § 5.126. The new requirements expanded the comparison requirement in the original section by adding a comparative analysis of data evaluating the performance, over time, of the Commission and of entities regulated by the Commission. The Legislature also added a requirement in Texas Health and Safety Code (THSC) § 382.0215 to assess Emissions Events (EEs), including actions taken by the Commission in response to the EEs. The 82nd Legislative Session added Chapter 28A to the TWC, which pertains to the registration and investigation of certain Aggregate Production Operations (APOs). Additionally, the 84th Legislative Session transferred the Texas Tier II Chemical Reporting Program from the Texas Department of State Health Services to the TCEQ pursuant to HB 942.

The TCEQ is the State’s primary and comprehensive environmental regulatory agency. Its mission is to protect our State’s precious human and natural resources consistent with sustainable economic development. The agency regulates almost 705,600 public and private facilities and/or individuals in Texas that affect, or have the potential to significantly affect, the environment. The goal of the agency is clean air, clean water, and the safe management of waste.

Glossary of Abbreviations for Programs

AGRI = water quality facilities such as dairies and concentrated animal feeding operations

AIR or AQ = air quality

APO = aggregate production operation

DC = dry cleaner

EA = Edwards Aquifer

ER = emergency response

IHW, IHWNP or IHWHL = industrial and hazardous waste

MSW = municipal solid waste, including landfills, tires, medical waste, and used oil/filter facilities

OC or OL = occupational certification/licensing

OSSF = on-site sewage facility

PST = petroleum storage tank

PWS = public water supply

RAD = radioactive material disposal, including low level radioactive waste and non-oil and gas exploration naturally occurring radioactive material waste disposal

TAC = Texas Administrative Code

TRII = Tier II

UIC = underground injection control

WQ = water quality, including domestic and industrial wastewater treatment plants, stormwater, and sludge use operations (beneficial use sites and transporters)

WR, WRHL or WATERRIGHT = water rights diversion and pumping

WWA = wastewater agriculture, such as dairies and concentrated animal feeding operations

MM = multi-media - any combination of the above

Annual Enforcement Report

Fiscal Year 2019

Executive Summary

Fiscal Year (FY) 2019 was a year of significant accomplishments for the TCEQ. Enforcement efforts resulted in 1,307 administrative orders issued with over \$7.5 million to be paid as penalties and over \$2.7 million to be expended for Supplemental Environmental Projects (SEPs). These amounts include an administrative order for which stipulated penalties were collected during FY 2019. This order contains provisions that require payment of stipulated penalty amounts for specified future violations for the duration of the order. During FY 2019, equal amounts were paid in penalties and SEPs (\$54,250 each for a total of \$108,500) for this order. There were an additional 30 civil judicial orders issued through representation by the Texas Office of the Attorney General (OAG) that resulted in over \$3 million to be paid as penalties.

Compliance Assistance: The agency's efforts to provide assistance to the regulated community resulted in helping more than 66,000 Texas small businesses and local governments, keeping them informed about changes and trends in environmental regulations to help them comply. Additionally, TCEQ provided compliance assistance and technical information to over 7,600 people through agency-sponsored seminars and workshops.

Investigations and Enforcement: The agency conducted over 107,000 routine investigations, including 4,982 complaint investigations. Almost 17,000 NOVs were issued as a result of the agency's compliance monitoring activities.

The voluntary environmental self-audit program resulted in the receipt, evaluation, and response to over 2,400 Notices of Intent to Audit and almost 840 Disclosures of Violation. Those who comply with the conditions of the Texas Environmental, Health, and Safety Audit Privilege Act may qualify for immunity from penalties if swift compliance is achieved.

Along with the agency's administrative and civil enforcement authorities, the TCEQ also partners with the Texas Environmental Enforcement Task Force to pursue criminal enforcement. The agency participated in three search warrants and finalized 11 cases with convictions against 12 individuals and three corporations. The finalized cases included nine felony counts and 14 misdemeanor counts. These cases resulted in over \$4 million in criminal fines, 16 years of community supervision, 160 days of confinement, and \$20,000 in remediation costs.

Comparative Analysis of Performance: The number of administrative/civil judicial orders issued were predominantly in the water (657 orders or 49%) program. Of the 1,337 regulated entities that were issued civil judicial and administrative orders, 378 (28%) had previous enforcement orders and 335 (25%) had previous violations that were the same or similar.

The industry types for regulated entities with the highest percentage of administrative and civil judicial orders issued in FY 2019 were Water Supply and Irrigation Systems (23%), Gasoline with Convenience Stores (22%), Plastic Material and Resin Manufacturing (9%), and Basic Organic Chemical Manufacturing (2%).

The industry types for regulated entities with the highest percentage of previous orders issued included Water Supply and Irrigation Systems (38%), Gasoline Stations with Convenience Stores (12%), Plastic Material and Resin Manufacturing (5%), Basic Organic Chemical Manufacturing (4%), Natural Gas Liquid Extraction (3%), Petroleum Refineries (2%), Pipeline Transportation of Refined Petroleum Products (2%), and Petrochemical Manufacturing (2%).

The industry types for regulated entities with the highest percentage of same or similar violations in prior enforcement orders included Water Supply and Irrigation Systems (31%), Gasoline Stations with Convenience Stores (13%), Sewage Treatment Facilities (8%), Petroleum Refineries (5%), Basic Organic Chemical Manufacturing (5%), Plastic Material and Resin Manufacturing (4%), Natural Gas Liquid Extraction (4%), Petrochemical Manufacturing (3%), and Marinas (2%).

Emissions Events: The overall number of incidents reported increased 13% from FY 2018 to FY 2019. Increases occurred for EEs, Scheduled Maintenance, and Scheduled Startup while decreases occurred for Excess Opacity. The following North American Industrial Classification System (NAICS) sectors reported the highest number of incidents: 211111 (Crude Petroleum and Natural Gas Extraction), 211112 (Natural Gas Liquid Extraction), and 493190 (Other Warehousing and Storage). There were over 2,700 incident investigations conducted in FY 2019. The reported quantity of emissions increased by 91% from FY 2018 to FY 2019.

Aggregate Production Operations: In FY 2019, the TCEQ completed over 1,400 APO surveys and over 450 inspections were conducted. There were 161 NOVs issued and 35 Notices of Enforcement (NOEs) issued. In addition, 28 administrative orders were issued with over \$157,000 to be paid as penalties.

Tier II Chemical Reporting Program: The Tier II Chemical Reporting Program was transferred from the Texas Department of State Health Services to the TCEQ on September 1, 2015. On March 1,

2019, the Tier II Program finished its third annual reporting period at the TCEQ with over 82,000 chemical inventory reports received from the regulated community and over \$1 million in fees collected.

The Tier II Program initiated compliance actions to correct report deficiencies for over 2,000 facilities, of which over 1,800 facilities had resolved the deficiencies at the time this report was prepared. TCEQ conducted 263 Tier II field investigations including 20 at ammonium nitrate storage facilities.

Results of Enforcement Actions: Enforcement orders resulted in over 63 million pounds of pollutants eliminated, reduced, or the routes of exposure reduced, and an estimated cost of more than \$33 million to achieve compliance.

Chapter 1: The Environmental Toolbox

The TCEQ utilizes enforcement as a tool among many available to protect the environment and human health. When warranted, the agency pursues strong and vigorous enforcement, used within an overall strategy for achieving maximum compliance. Additionally, the TCEQ uses a broad range of tools to enable and require persons, businesses, and governments, large and small, to comply with environmental rules. These tools include on-site and off-site facility assistance, small business and local government assistance, general education events, regulatory workshops, publications and guidance documents, telephone hotlines, and the agency's expansive internet site.

Event Coordination and Education Activities

The TCEQ also provides educational opportunities and technical assistance through publicized and coordinated workshops, seminars, and educational events, including an annual trade fair. During FY 2019, 35 agency-sponsored seminars provided technical information and assistance to over 7,600 attendees.

TCEQ-Sponsored Seminars

- Dam Safety Workshop for Owners and Operators (three events)
- Emissions Inventory Seminar
- Environmental Trade Fair and Conference
- Pollution Prevention Waste Management Workshop
- Public Drinking Water Conference
- Tier II Chemical Reporting Training (28 events)

Assistance to Small Businesses and Local Governments

The TCEQ annually reaches at least 66,000 Texas small businesses and local governments, keeping them informed about changes and trends in environmental regulations to help them comply. This overall figure included 8,434 direct requests for assistance from small business and local government customers. TCEQ staff also presented compliance information to small businesses and/or local governments at 71 events with over 2,918 attendees. All this assistance focuses on up-to-date information that ultimately helps the regulated community understand environmental rules and how to comply with those rules.

The TCEQ's EnviroMentor program matches participating small businesses and local governments with dedicated environmental professionals who volunteer their time and expertise to help these small entities achieve compliance. In FY 2019, this group tallied 900 volunteer hours and helped 37 small businesses or governments.

During FY 2019, the Small Business and Local Government Site Visit program, utilizing a grant from EPA, conducted 221 site visits at potentially abandoned petroleum storage tank facilities in the 60 counties impacted by Hurricane Harvey. The purpose of these site visits was to assess damage that may have resulted from the hurricane. The Site Visit program also conducted comprehensive site assessments at seven of these facilities to determine whether a release had occurred.

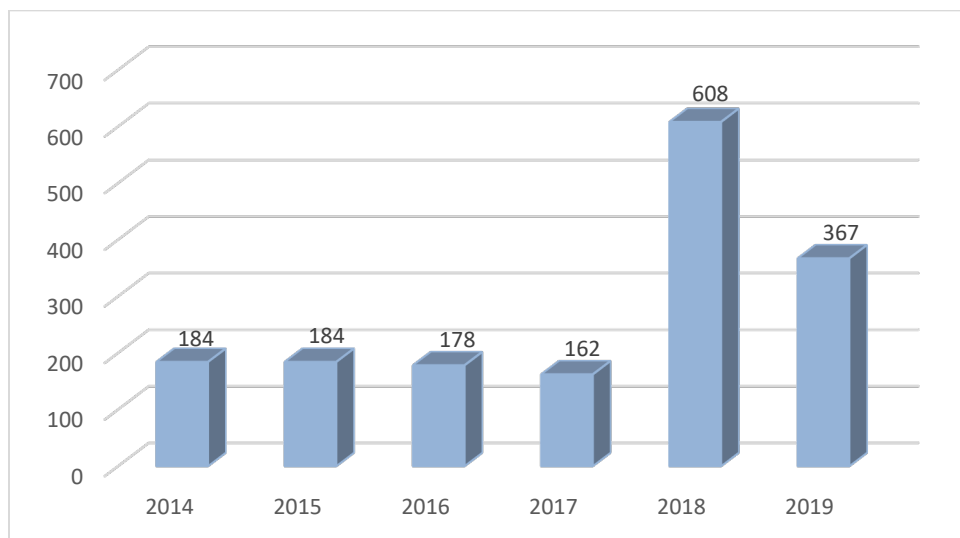
The Site Visit program also continued to support the agency's priority to meet the federal Energy Policy Act of 2005 requirements. Through the Petroleum Storage Tank Site Visit program, PST facilities have an opportunity to receive an Energy Policy Act site visit. If they achieve full compliance with the Energy Policy Act checklist, they receive credit for their 3-year investigation. Site visits under this program do not lead to an investigation or citation, unless there is an imminent threat to human health or the environment. During FY 2019, 146 site visits were conducted, identifying 96 compliant facilities. Those facilities that were not compliant were provided recommended actions to resolve non-compliance issues so they can achieve compliance and be prepared for a future Energy Policy Act investigation.

Table 1-1 depicts assistance that focused on small businesses and local governments. Figure 1-1 graphically represents Site Visits (site visits to check compliance with all aspects of environmental regulations—air, water, and waste) over the past six years.

Table 1-1: Small Business and Local Government Assistance Activities

FY	Requests for Assistance	Site Visits ¹
2014	5,309	184
2015	6,340	184
2016	7,584	178
2017	8,690	162
2018	8,140	608
2019	8,434	367

Figure 1-1: Total Number of Site Visits



1 The 2016 and 2017 Site Visits were only PST Energy Policy Act focused site visits. The 2018 and 2019 Site Visits were only Hurricane Harvey Damage Assessments and PST site visits.

Investigations and Enforcement Policy

A strong enforcement program must ensure that enforcement mechanisms are applied and issued in an equitable manner. Equitable treatment means that violators do not come out ahead economically to the disadvantage of those entities that spend substantial resources to comply with the law.

The TCEQ continues to implement the provisions of the Commission's Penalty Policy which was last revised in April 2014. The cornerstone of this policy emphasizes compliance to protect our citizens and the environment from harm, coupled with ensuring consistent, just, and timely enforcement when environmental laws are violated.

The TCEQ has the authority to levy penalties in 31 environmental program areas. As of September 1, 2011, penalties can be as much as \$25,000 per day, per violation for most administrative cases and \$25,000 per day, per violation for most civil judicial cases. There are some statutory provisions for certain regulated program activities that authorize different administrative and civil penalty amounts. Some examples of these situations include, but are not limited to:

- Limiting the statutory maximum to \$1,000 (levees and public water supply);
- Limiting the statutory maximum to \$5,000 (occupational licensees, on-site sewage disposal, public water utilities, used oil and filters, and water rights);
- Application of a minimum penalty of \$2,500 and maximum penalty of \$25,000 per violation (unauthorized discharges from quarries);
- Application of a strict penalty of \$10,000 per day per violation (with an exception), rather than defining a maximum (rock crusher or concrete plants that perform wet batching, dry batching, or central mixing and are operating without a permit);
- Providing different maximum penalty amounts based upon the particular violation cited (dry cleaners); and
- Some statutes provide for a particular penalty amount total per violation, rather than per day (dry cleaners, computer equipment manufacturers).

When determining the penalty amount, the TCEQ considers many factors including: the nature; circumstances; extent; duration and gravity of the violation; the severity of impacts to human health and the environment; compliance history; culpability; good faith efforts to comply; economic benefit; deterrence; and other factors as justice may require.

It is important to note that the TCEQ's enforcement activities originate primarily from Regional Office investigations as well as from record reviews done at the Commission's Austin headquarters. Scientific, technical, and environmental specialists in the agency's 16 regional offices are responsible for the majority of both investigations conducted and complaints investigated.

In FY 2019, the TCEQ conducted over 107,000 investigations, as depicted in Figure 1-2, of which 67,586 were on-site investigations. There were increased numbers of water rights, water quality, air, and public drinking water investigations in FY 2019. For details regarding investigations conducted over the past six years, see Tables T-1A through T-6B in the tables section of this report.

Overall, the number of complaint investigations increased to 4,982 in FY 2019, as shown in Figure 1-3. The largest increases were in water complaint investigations which can be attributed to an increase in wastewater and stormwater complaints related to increased rainfall and flooding in FY 2019. There has also been an increase in the number of investigations due to public drinking water complaints. For details regarding complaints investigated over the past six years, see Tables T-7 through T-12 in the tables section of this report.

Advance notification of routine compliance investigations ensures that proper personnel and records will be available at the time of the investigation. The agency provided advance notice for 14,555 on-site investigations and conducted 53,031 unannounced on-site investigations. Please note that a single notice may be given for an investigation that includes multiple activities that contribute to the total investigation count. Investigations that do not receive advance notification include those that are complaint related, enforcement follow-up investigations, or otherwise warrant an unannounced investigation.

Figure 1-2: Total Investigations by FY

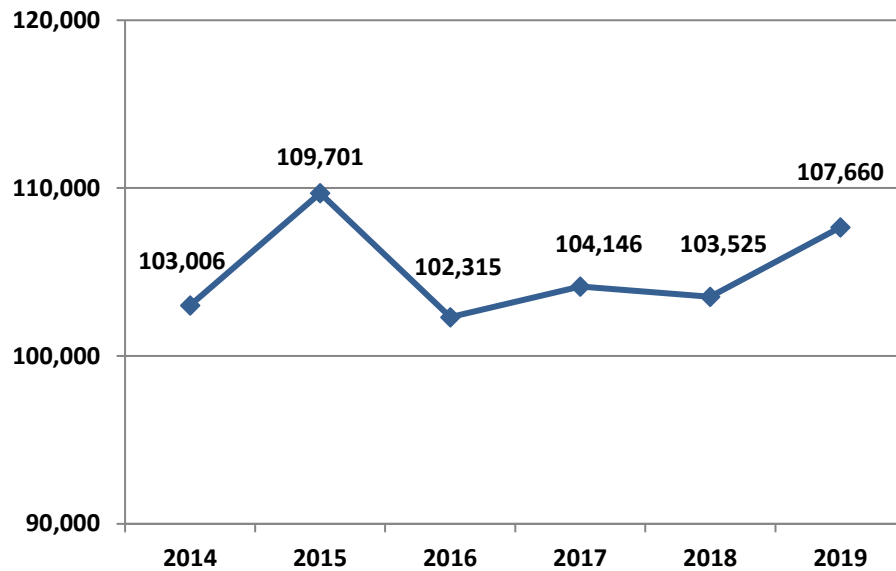
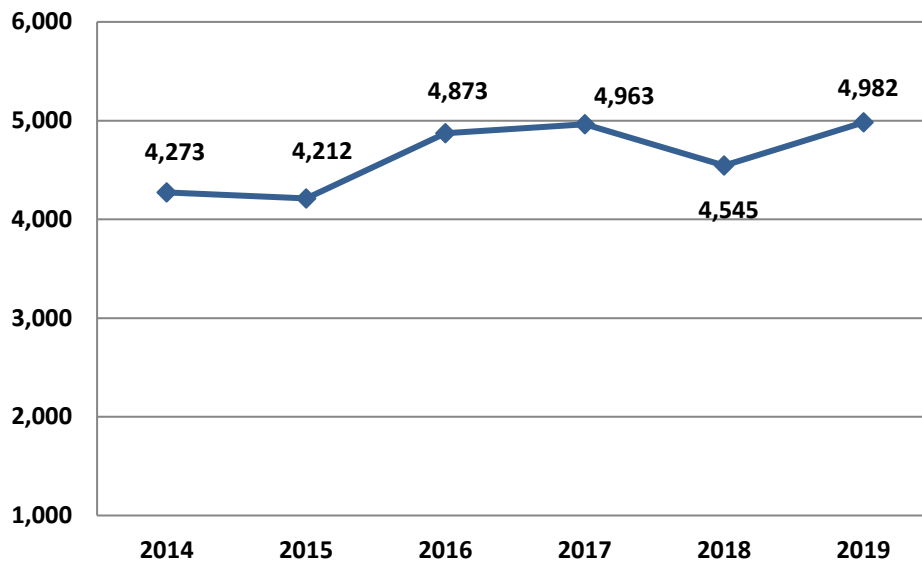


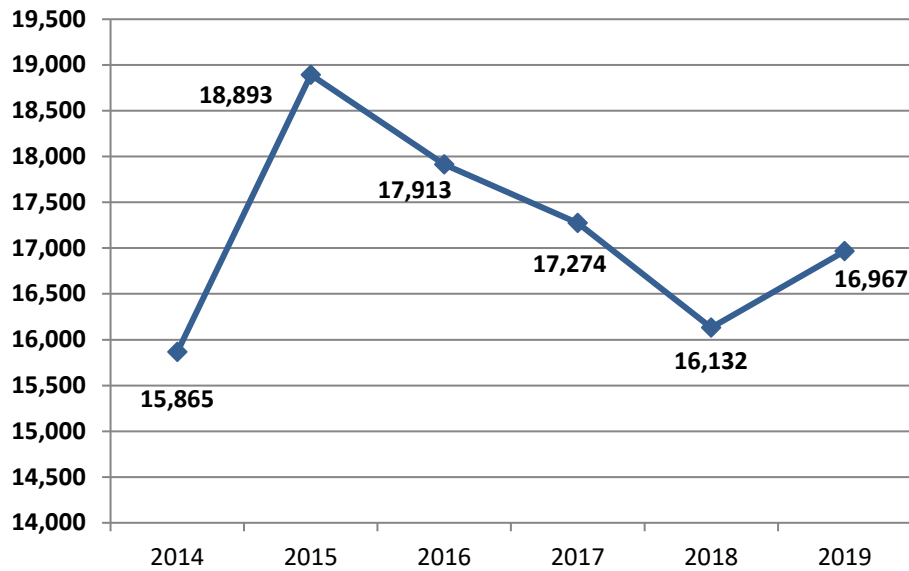
Figure 1-3: Complaint Investigations by FY



The most common tool used by the TCEQ to require compliance with environmental laws is the NOV. An NOV is sent to an entity when it is determined that an environmental violation may have occurred. The NOV is a multi-purpose, flexible tool that is used thousands of times each year. In many cases it is enough to compel compliance, thereby avoiding possible damage to the environment.

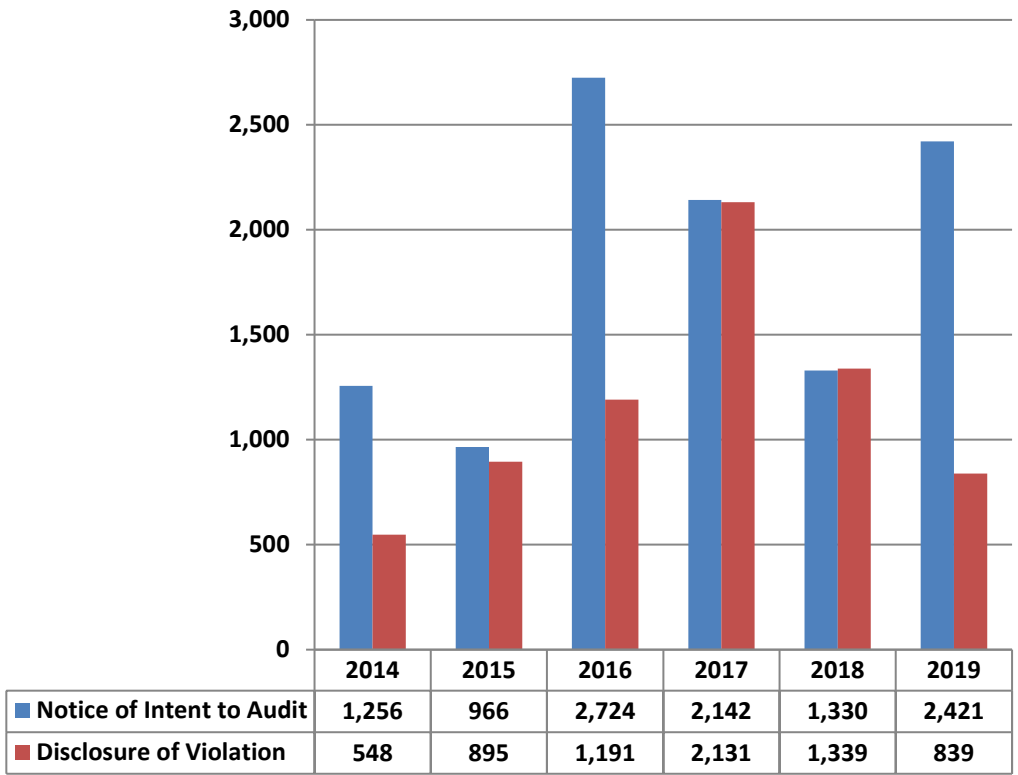
In other cases, it can be the first step in a process that ultimately can result in administrative enforcement, civil enforcement, and/or possible criminal charges for violation of environmental laws. As depicted in Figure 1-4, the TCEQ issued 16,967 NOVs from both the Regional Offices and Central Office in FY 2019, an increase from FY 2018. Details regarding NOVs issued are included in Tables T-13 through T-24 in the tables section of this report.

Figure 1-4: Notices of Violation Issued by FY



The TCEQ’s traditional enforcement efforts have been enhanced by voluntary environmental self-audits conducted at facilities under the Texas Environmental, Health, and Safety Audit Privilege Act (“Audit Act”). This law encourages businesses and governments subject to environmental regulation to perform comprehensive assessments of compliance with environmental laws, regulations, and permits for their own facilities. Organizations who participate in the Audit Act are required to notify the TCEQ of their intent to self-audit and then fully disclose and resolve violations resulting from the audit. The TCEQ ensures that all violations disclosed under this program are corrected, and, provided that certain conditions of the Audit Act are complied with, the participants in this program may not be subject to civil and administrative penalties. Figure 1-5 depicts a summary of the Notices of Audit and Disclosures of Violation that have been received by the TCEQ from FY 2014 through FY 2019.

Figure 1-5: Summary of Texas Environmental Health and Safety Audit Privilege Act Statistics



The success of TCEQ’s regulatory assistance and investigation/enforcement programs is revealed in the high percentages of compliance documented following investigations conducted by the TCEQ. Table 1-2 depicts the compliance rates of facilities inspected from FY 2014 through FY 2019.

Table 1-2: Percent of Facilities Inspected by the TCEQ in Compliance²

	2014	2015	2016	2017	2018	2019
% of inspected air facilities in compliance	98%	98%	97%	97%	98%	97%
% of inspected water facilities in compliance	99%	99%	99%	99%	99%	99%
% of inspected waste facilities in compliance	95%	93%	94%	95%	96%	97%

2 Compliance indicates that enforcement orders, referrals to another agency (OAG, Texas Railroad Commission, etc.) or program (Superfund or criminal investigations, etc.) or compliance agreements were not required following an investigation. Some minor violations may have been noted in the investigations; however, they were corrected within a reasonable period of time, and therefore did not require further enforcement.

Chapter 2: Dollars and Sense

Some of the most familiar indicators for the enforcement activities of a regulatory agency are dollars and cents: How much money did the agency order to be paid in penalties? While familiar, this is not necessarily an indication that the agency has been successful. The number of administrative orders issued by the TCEQ varies each year and is dependent upon the violator's willingness to settle a case. If a violator refuses to settle a case, and requests a hearing, the TCEQ must try the case through the administrative hearing process. This legal process is similar to trying a case in court. Because the process of law is allowed, it often results in significant delays in the issuance of orders.

The TCEQ issued 1,307 administrative orders in FY 2019 (see Figure 2-1). The number of administrative orders issued varies, depending on the enforcement referrals received, as well as the violators willingness to settle a case.

Figure 2-1: Total Number of Administrative Orders Issued by FY

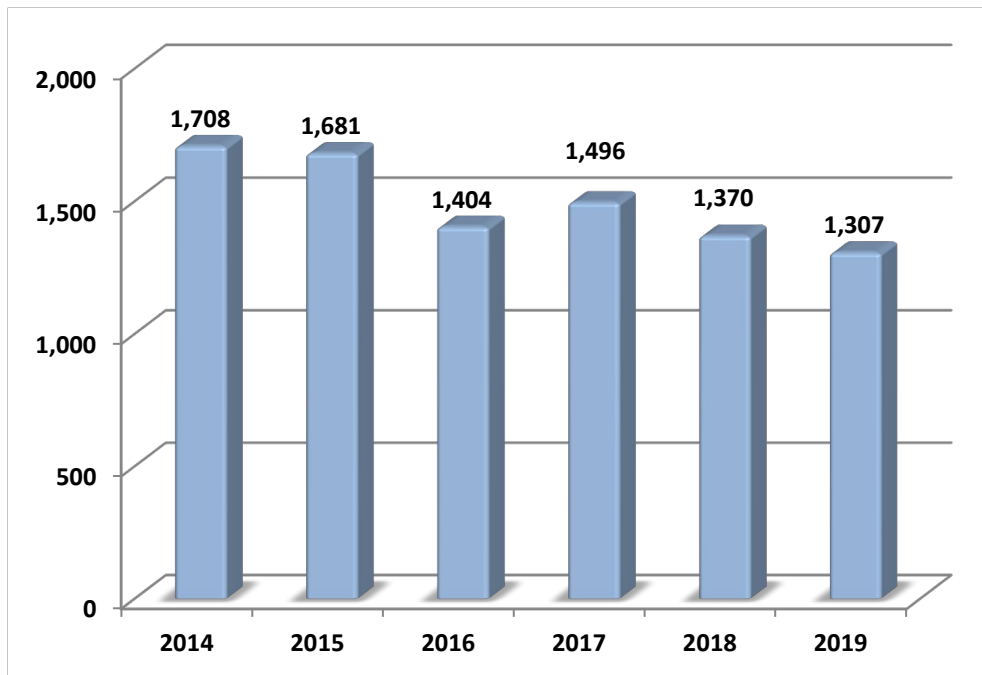
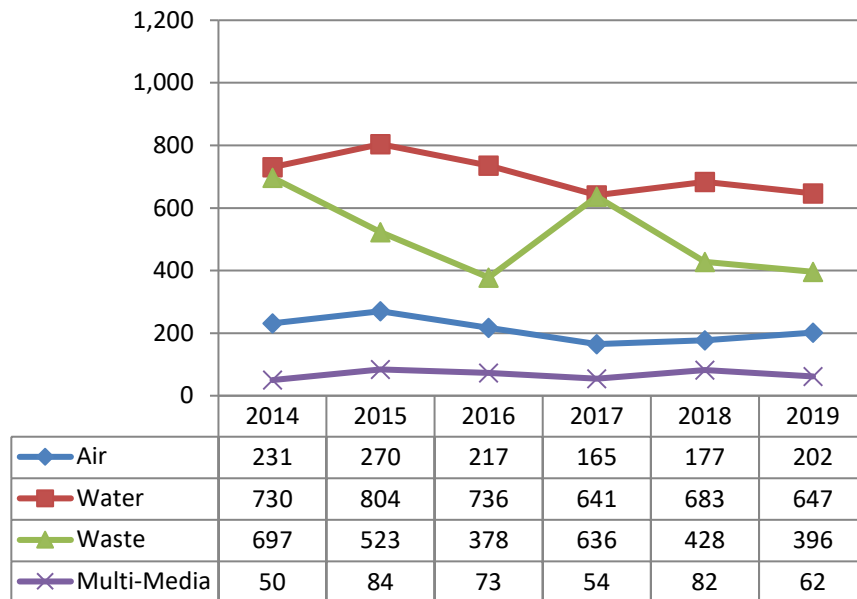


Figure 2-2: Number of Administrative Orders Issued by Media and FY

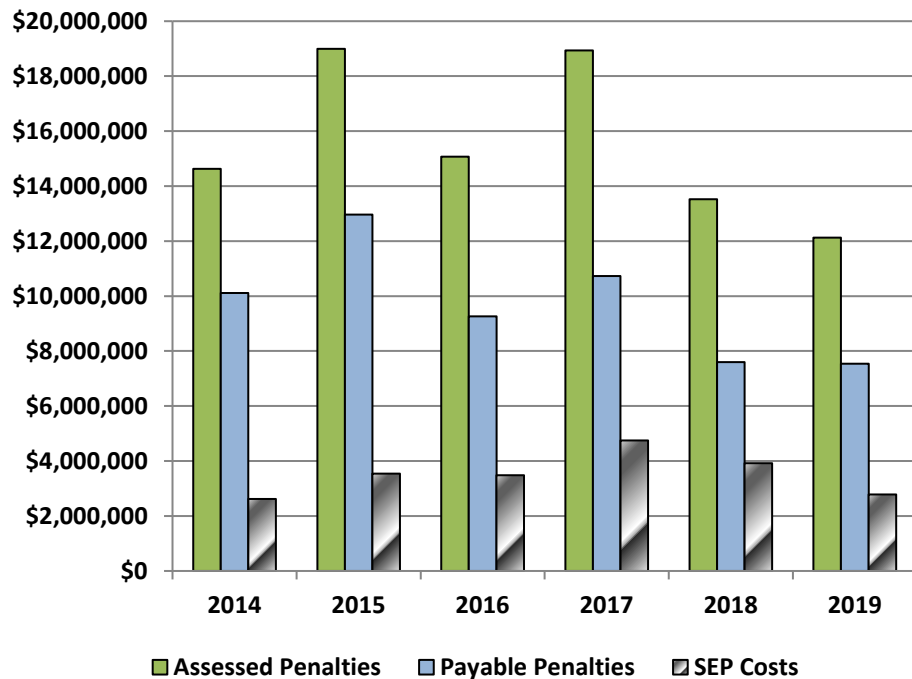


The 1,307 administrative orders issued in FY 2019 required payments of \$7,480,977 in penalties and an additional \$2,728,870 was required to be paid for SEPs. In addition, there was one administrative order for which stipulated penalties were collected during FY 2019. This order contains provisions that require payment of stipulated penalty amounts for specified future violations for the duration of the order. During FY 2019, equal amounts were paid in penalties and SEPs (\$54,250 each for a total of \$108,500) for this order. Table 2-1 and Figure 2-3 display the penalty and SEP amounts for the past six years.

Table 2-1: Summary of Administrative Penalty Amounts and SEPs by FY

Fiscal Year	Assessed Penalties	Deferred Penalties	Payable Penalties	SEP Costs	Number of Orders with SEPs
2014	\$14,625,165	\$1,888,130	\$10,117,720	\$2,619,315	135
2015	\$18,989,038	\$2,482,280	\$12,965,643	\$3,541,115	187
2016	\$15,075,693	\$2,331,572	\$9,261,563	\$3,482,558	177
2017	\$18,941,687	\$3,065,484	\$10,931,597	\$4,944,336	166
2018	\$13,520,045	\$1,935,846	\$7,593,779	\$3,990,420	169
2019	\$12,123,643	\$1,805,296	\$7,535,227	\$2,783,120	153

Figure 2-3: Penalties and SEP Costs in Administrative Orders by FY



SEPs are projects approved by the Commission to benefit the local Texas communities where environmental laws and regulations have been violated. Violators are allowed to put a portion of their penalty dollars to work to benefit the environment in the community affected by the violations, rather than paying the entire penalty to the State’s General Revenue Fund. In addition, TWC § 7.067 allows certain Local Governments in an enforcement action to perform an SEP to come into compliance with environmental laws or to remediate the harm caused by those violations.

SEP projects that have been approved include the following:

- repair on structures or equipment that may be the cause of the violation;
- remediation of environmental harm, such as a cleanup of a spill;
- cleanups of abandoned illegal dump sites;
- community household hazardous waste and tire collections;
- air and water quality monitoring networks;
- wetlands and habitat restoration;
- establishment of nature preserves;
- erosion control;
- placement of ozone air monitoring equipment in schools and local communities;
- installing and/or repairing on-site sewage facilities, municipal sewer lines, and potable water service for low-income households;
- retrofitting of diesel buses to “clean-technology” for school districts;
- energy efficient upgrades and/or retrofits for public buildings or low-income homeowners;
- purchasing alternative fueled equipment to replace diesel and gasoline powered equipment; and
- cleanups of bays and watersheds.

For more information regarding the number of orders issued, programmatic information, and a listing of each of the administrative orders issued by program, see Tables T-25 through T-30 in the tables section of this report, and Appendices 1-12.

If administrative orders and penalties issued by the TCEQ do not achieve environmental compliance, the agency may pursue compliance through the OAG in court. Additionally, there are some cases with such significant violations that the TCEQ refers them to the OAG immediately rather than pursue administrative remedies. During FY 2019, the OAG obtained 30 judicial orders in cases referred from the TCEQ or in which the TCEQ was a necessary and indispensable party. These court orders resulted in \$3,081,387 required to be paid in penalties. Table 2-2 is a summary of the judicial orders that have been issued for the past six years.

Table 2-2: Civil Judicial Order Penalty Amounts by FY

Fiscal Year	Number of Civil Judicial Orders	Civil Penalties Required to be Paid
2014	23	\$6,178,770
2015	45	\$16,148,632
2016	31	\$1,257,980
2017	22	\$1,329,315
2018	34	\$3,816,814
2019	30	\$3,081,387

For more information regarding the number of civil judicial orders issued, programmatic information, and a listing of each of the judicial orders issued by program, see Tables T-31 through T-36 in the tables section of this report and Appendices 13-18.

A strong enforcement program, combined with a strong regulatory assistance program, ensures that the public and the environment receive the benefits of the protections embodied in environmental statutes, regulations, and permits.

Chapter 3: The Criminal Element

Texas Environmental Enforcement Task Force (the “Task Force”)

Texas is a leader and national model in the investigation and prosecution of environmental crime. Created in 1991, the Task Force has included participants from more than 25 local, state, and federal agencies. The TCEQ, and particularly the Environmental Crimes Unit, play a key investigative role and head the task force. Members of the Task Force include the TCEQ, the Governor’s Office, the Texas Parks and Wildlife Department, the OAG, the Texas Railroad Commission, and the General Land Office. These agencies coordinate activities with the U.S. Environmental Protection Agency’s Criminal Investigation Division, the U.S. Attorney’s Office, the Federal Bureau of Investigations, and local district and county attorneys. Numerous other federal, state, and local agencies also participate in Task Force investigations. The TCEQ Environmental Crimes Unit, with assistance from other members of the Task Force, also conducts environmental crimes enforcement training for local law enforcement officers.

Criminal Investigations

The TCEQ participated in three search warrants and finalized 11 cases with convictions against 12 individuals and three corporations during FY 2019 (see Table 3-1). The finalized cases included nine felony counts and 14 misdemeanor counts. These cases resulted in a total of \$4,027,900 in criminal fines, 16 years of community supervision, 160 days of confinement, and 250 hours of community service.

One defendant was ordered to pay \$20,000 to remediate an illegal dump site, one defendant was ordered to pay \$1,000 to the North Texas Food Bank, and another defendant was ordered to pay \$1,000 to the Fort Bend Women’s Shelter. One defendant paid a \$100,000 contribution split between the Houston Galveston Area Council, Harris County Pollution Control, Harris County Engineering, the City of Houston, and the Southern Environmental Enforcement Network.

Table 3-1: Summary of Criminal Investigation Information by FY

FY	Number of Search Warrants	Number of Cases Resulting in Convictions	Number of Convictions Against Individuals	Number of Convictions Against Corporations	Total Number of Convictions	Number of Felony Counts	Number of Misdemeanor Counts
2014	7	27	21	12	33	18	43
2015	5	10	11	2	10	19	6
2016	7	19	22	5	27	28	22
2017	6	21	15	12	27	9	17
2018	7	18	19	5	24	18	17
2019	3	11	12	3	15	9	14

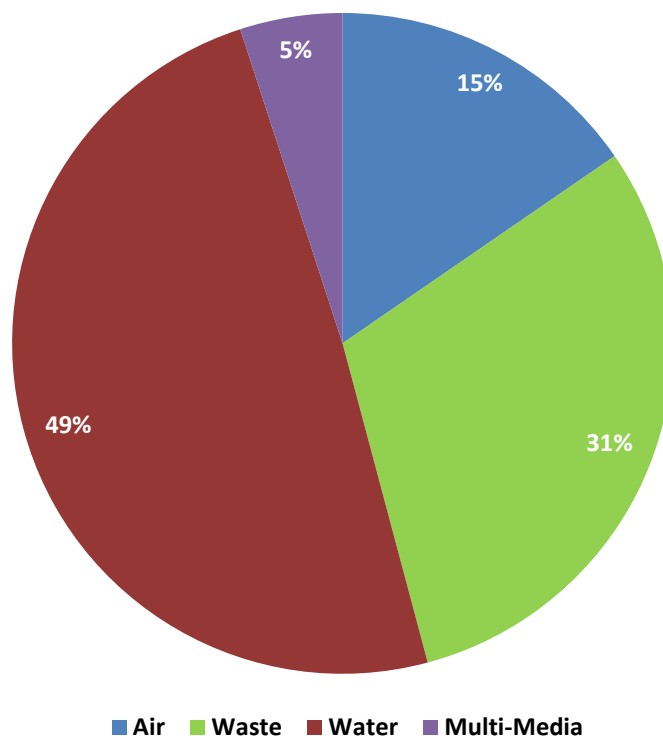
Chapter 4: Comparative Analysis of Performance

As indicated in the introduction to this report, the 77th Legislature added additional requirements to the Annual Enforcement Report, which were codified in TWC § 5.756. These requirements add a comparative analysis of data evaluating the performance, over time, of the Commission and of entities regulated by the Commission. This section of the report addresses the comparison of entities regulated by the Commission. An analysis has been performed on the types of businesses for all of the orders issued, orders issued to regulated entities with prior orders, orders issued to regulated entities with the same or similar violations, the violations included in the orders (including classification of the severity of the violations), and the size of businesses or municipalities that had orders issued during the Fiscal Year.

Comparison of Orders Issued by Media Type

In FY 2019, the TCEQ issued 1,307 administrative orders and assisted the OAG in obtaining 30 civil judicial orders. Figure 4-1 displays the percentage of orders issued during FY 2019 by media type (air, waste, water, and multi-media).

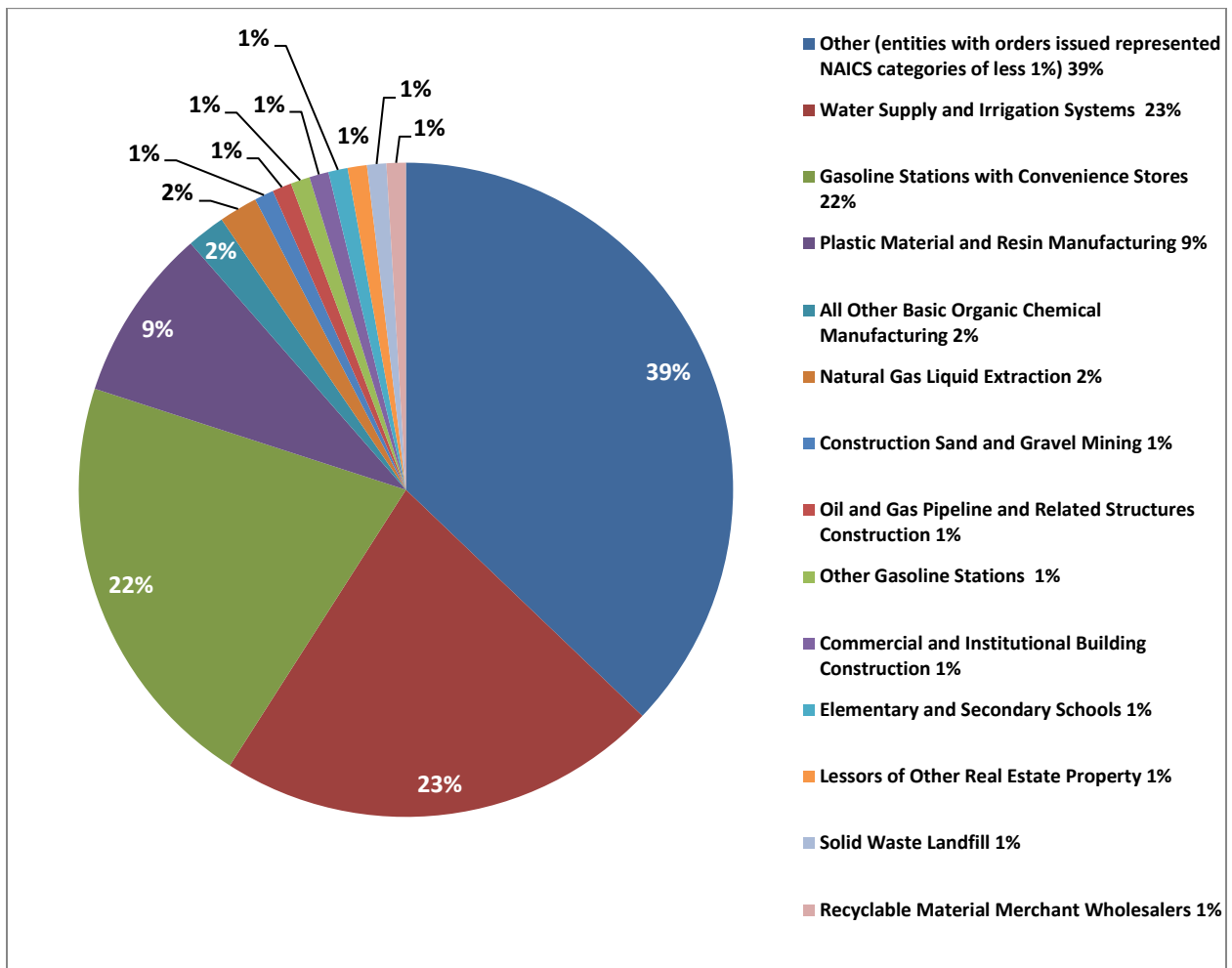
Figure 4-1: Percent of Orders Issued by Media Type in FY 2019



Comparison of Orders Issued by Industry Type

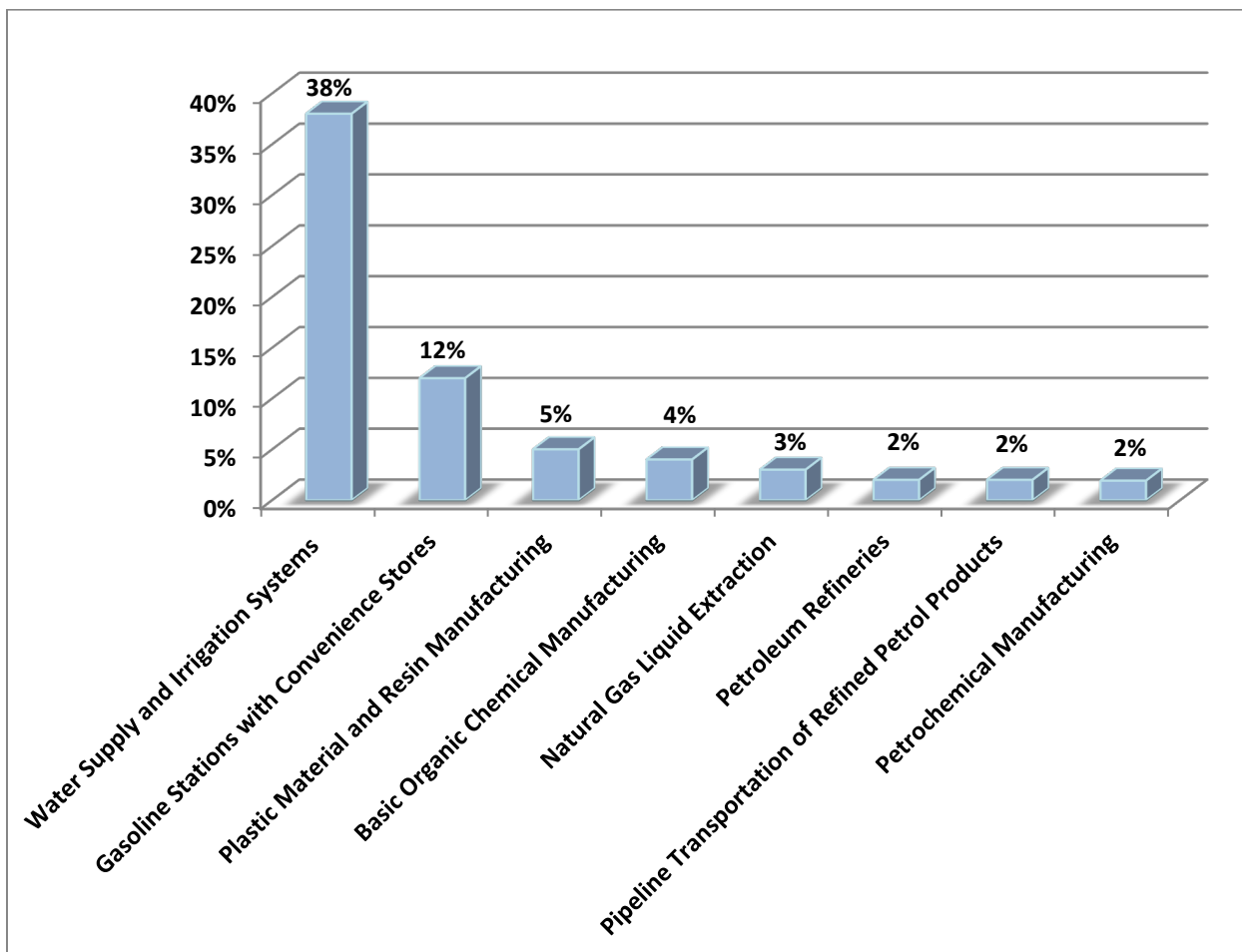
Figure 4-2 depicts the percent of regulated entities with orders issued for FY 2019 based upon the NAICS. The industry types with the highest percentage of administrative and civil judicial orders issued in FY 2019 were Water Supply and Irrigation Systems, Gasoline Stations with Convenience Stores, and Plastic Material and Resin Manufacturing (see Figure 4-2 for the entire summary). Thirty-nine percent of the regulated entities with orders issued represented NAICS categories of less than one percent.

Figure 4-2: Percent of Industry Types with Orders Issued in FY 2019



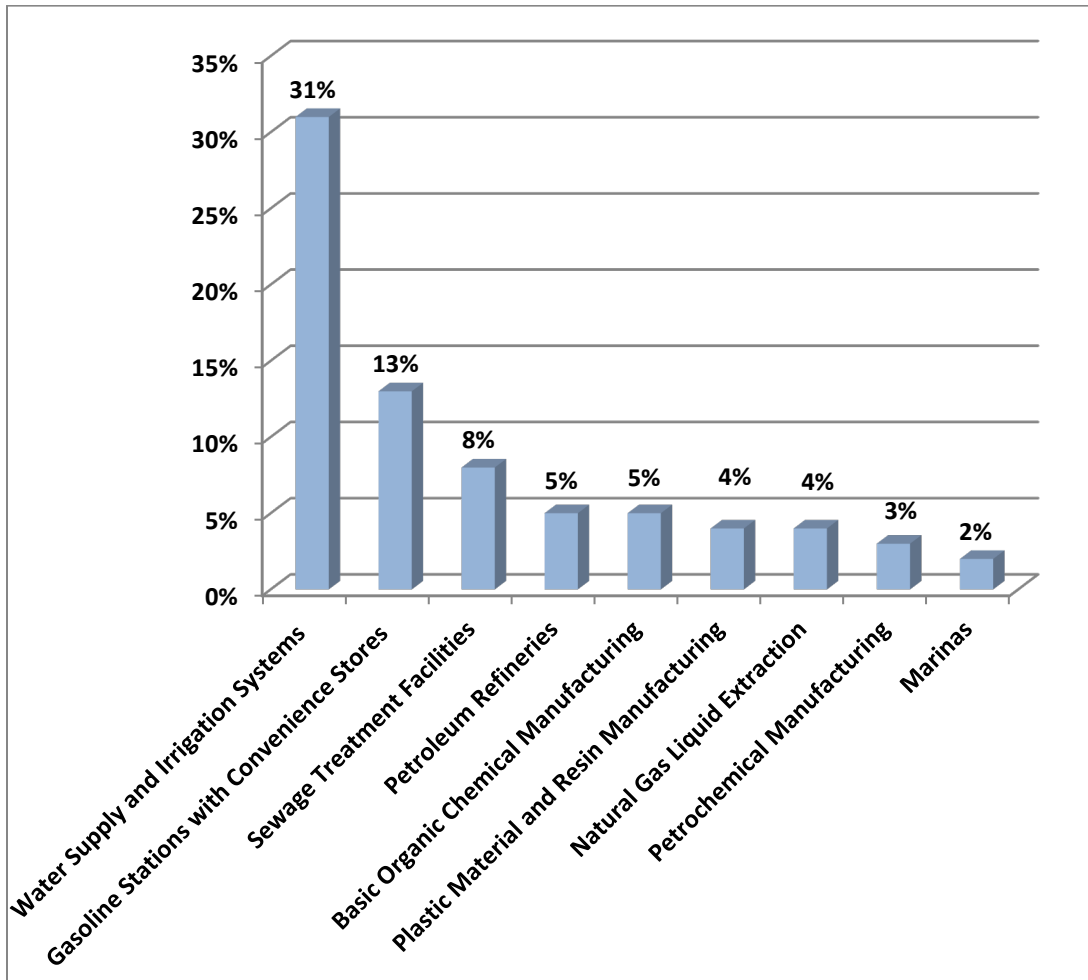
Of the 1,337 regulated entities that were issued civil judicial and administrative orders, 378 regulated entities (28%) had previous enforcement orders and 335 regulated entities (25%) had previous violations that were the same or similar over the past five years. The highest percentage of industry types with previous orders issued included Water Supply and Irrigation Systems, Gasoline Stations with Convenience Stores, Plastic Material with Resin Manufacturing, Basic Organic Chemical Manufacturing, Natural Gas Liquid Extraction, Petroleum Refineries, Pipeline Transportation of Refined Petroleum Products, and Petrochemical Manufacturing. (see Figure 4-3).

Figure 4-3: Percent of Industry Types with Previous Orders



The highest percentage of industry types for regulated entities with same or similar violations included in prior enforcement orders were Water Supply and Irrigation Systems, Gasoline Stations with Convenience Stores, Sewage Treatment Facilities, Petroleum Refineries, Basic Organic Chemical Manufacturing, Plastic Material and Resin Manufacturing, Natural Gas Liquid Extraction, Petrochemical Manufacturing, and Marinas. (see Figure 4-4).

Figure 4-4: Percent of Industry Types with Same or Similar Violations

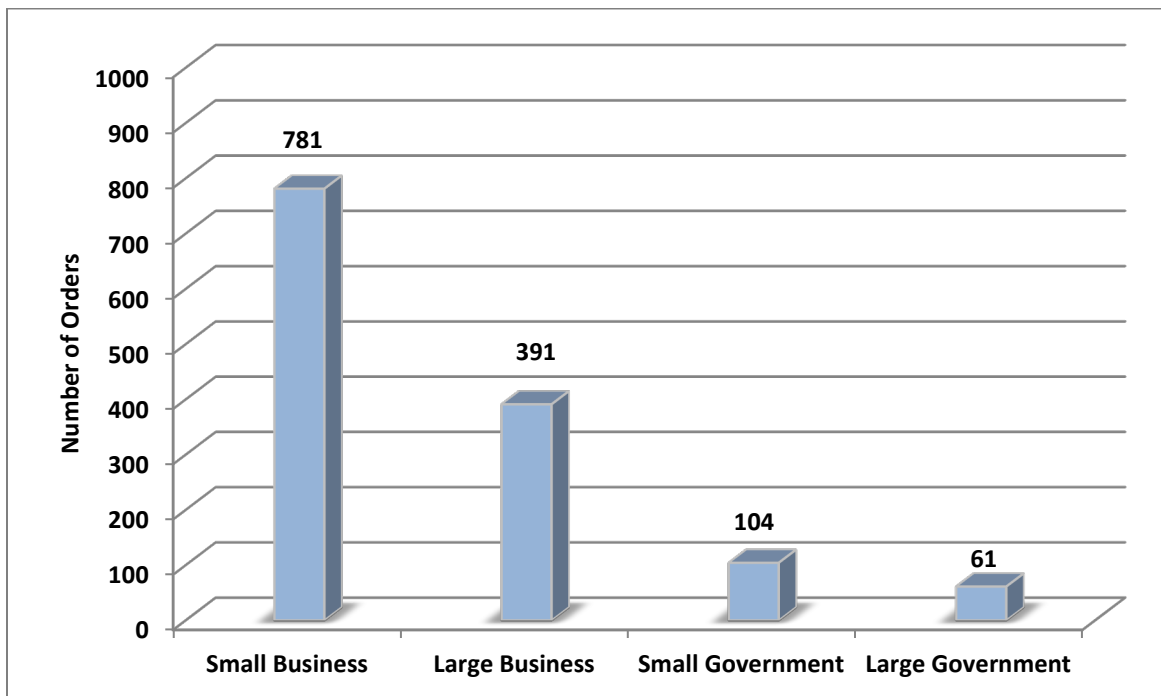


Comparison of Orders Issued by Legal Entity Size

Enforcement orders are issued to legal entities of varying sizes. For civil judicial and administrative orders issued in FY 2019, 58% were issued to small businesses, 29% were issued to large businesses, 8% were issued to small governments, and 5% were issued to large governments. Figure 4-5 depicts the breakdown of the size of business or local government with orders issued during FY 2019.

A small business is defined as any person, firm, or business that employs fewer than 100 full-time employees. A small government is defined as a city with a population of less than 5,000 or a county with a population of less than 25,000.

Figure 4-5: Size of Legal Entities with Administrative and Civil Judicial Orders Issued in FY 2019



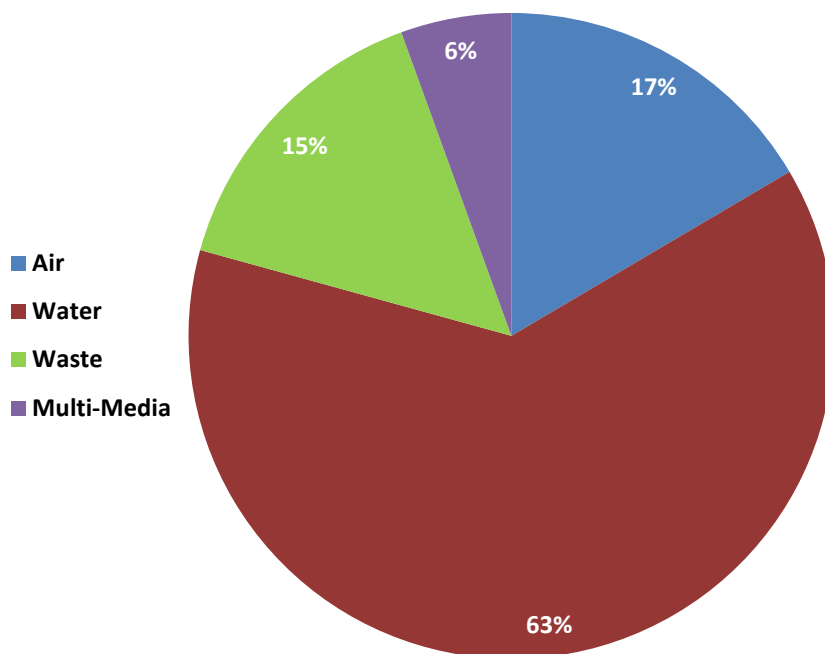
Comparison of Citations in Orders Issued

Of the 1,337 civil and administrative orders issued in FY 2019, there were 102,769 violations alleged with 191,394 citations of rules, statutes, permits, or orders. Of all the citations documented, 88% were for violations of rules or statutes, 10% were for violations of permit provisions, and 1% was for violations of orders previously issued. Table 4-1 lists the highest percentage of rule or statutory citations included in orders issued in FY 2019. Figure 4-6 depicts the most frequently cited rules or statutes by Media Type.

Table 4-1: Percent of Citations in Orders Issued in FY 2019

Table 4-1: Percent of Citations in Orders Issued		
Media	Section of Rule Cited	Percent
Water	30 TAC § 290.122 - Public Notification	10%
Water	30 TAC § 290.46 – Minimum Acceptable Operating Practices for Public Drinking Water Systems	8%
Air	THSC § 382.085 - Clean Air Act	6%
Water	30 TAC § 290.117 – Regulation of Lead and Copper	6%
Water	TWC § 26.3475 – Release Detection Requirements; Spill and Overfill Prevention; Corrosion Protection	5%
Waste	30 TAC § 334.50 - Release Detection	4%
Multi-Media	30 TAC § 305.125 – Consolidated Permits: Standard Permit Conditions	4%
Water	THSC § 341.0315 – Public Drinking Water Supply System Requirements	4%
Water	30 TAC § 290.110 – Disinfectant Residuals	4%
Air	30 TAC § 122.143 – General Terms and Conditions of Permits	3%
Air	30 TAC § 116.115 – General and Special Conditions of New Source Review Permits	3%
Water	TWC § 26.121 – Unauthorized Discharges Prohibited	2%
Water	30 TAC § 290.115 - Stage 2 Disinfection Byproducts (TTHM and HAA5)	2%
Water	30 TAC § 290.106 - Inorganic Contaminants	2%
Water	30 TAC § 290.274 - Report Delivery and Recordkeeping	2%
Water	30 TAC § 290.109 – Microbial Contaminants	2%
Water	30 TAC §290.42 - Water Treatment	1%
Water	30 TAC § 281.25 - Additional Facilities and Projects for Which Texas Pollutant Discharge Elimination System (TPDES) Permits Are Required	1%
Waste	30 TAC § 334.49 - Corrosion Protection	1%
Additional citations of less than 1% frequency are not included in this table.		

Figure 4-6: Percent of Most Frequently Cited Rules or Statutes by Media



Note: Figure 4-6 is an analysis only of the data in Table 4-1 and does not include citations that were of less than 1% frequency.

Compliance History Program

HB 2912, 77th Legislative Session, 2001, required the Commission to "develop a uniform standard for evaluating compliance history." This legislation placed additional requirements on the TCEQ to track and consider the compliance history of businesses and industries when issuing permits, assessing penalties, considering whether to conduct unannounced investigations, and deciding whether a regulated entity can participate in innovative environmental programs.

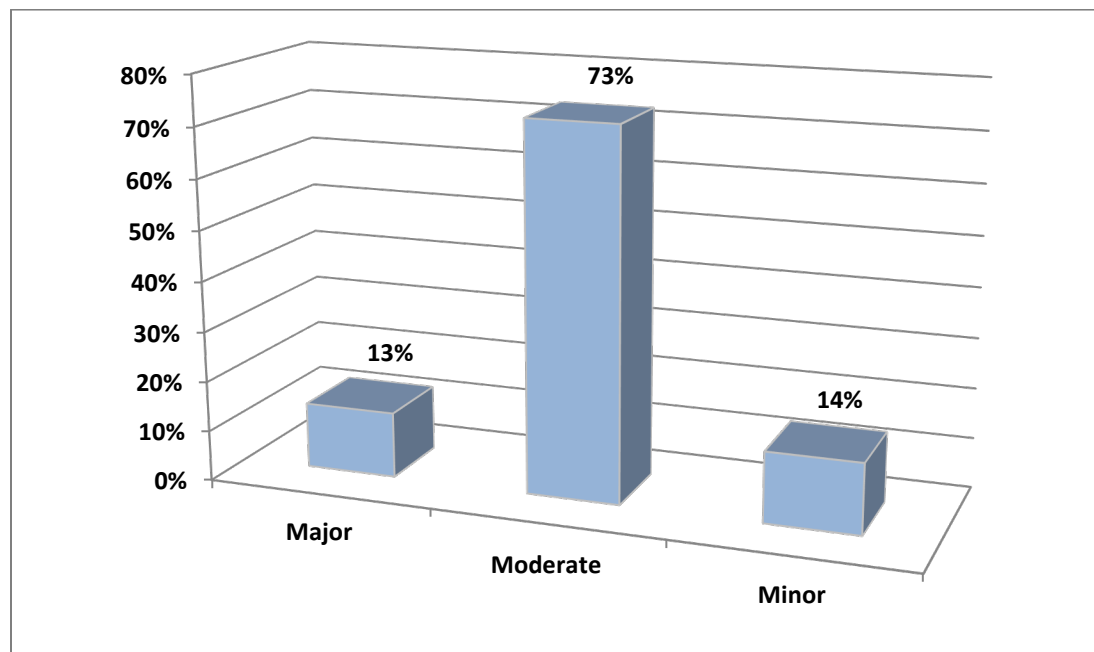
HB 2694, 82nd Legislative Session, 2011, required the Commission to make changes to the compliance history rule. In 2012, the TCEQ adopted revisions to 30 TAC Chapter 60 (Compliance History) to implement the changes required by HB 2694. These revisions allowed the Commission to use new standards instead of the previous uniform standard for evaluating and using compliance history. In addition, the adopted rule modified the components and formula of compliance history in order to provide a more accurate measure of regulated entities' performance and make compliance history a more effective regulatory tool.

Each regulated entity along with the owner or operator are classified using a three-tiered rating system. “High” performers are those with an above-average compliance record. “Satisfactory” performers have generally complied with environmental regulations, and “Unsatisfactory” performers have a below-average record. By law, unsatisfactory performers cannot receive a flexible permit or a wastewater general permit. They also are not allowed to participate in innovative programs or to receive notices of scheduled compliance investigations.

The Compliance History program sets up a point system for various violations, criminal convictions, and federal orders. These points may be offset by mitigating factors, such as implementation of a voluntary pollution-reduction program or voluntary disclosure of violations. The point system is based on several factors, including whether a documented violation of an applicable legal requirement is of major, moderate, or minor significance. The Commission’s rationale for categorizing the violations as either major, moderate, or minor, as defined in 30 TAC § 60.2(d), is based on its experience in evaluating the severity of various violations and their impacts, or potential impacts, to human health and the environment.

Figure 4-7 depicts the percentage of major, moderate and minor violations included in orders issued in FY 2019. The highest percentage of violations was of moderate severity.

Figure 4-7: Severity of Violations Included in Orders Issued in FY 2019



Chapter 5: Assessment of Emissions Events

Background

Subchapter F of 30 TAC Chapter 101, EEs and Scheduled Maintenance, Startup, and Shutdown (MSS) Activities, contains the regulatory requirements relating to EEs, opacity events, and scheduled MSS activities. The rule also incorporates the statutory requirements of THSC §§ 382.0215 and 382.0216. EEs are upset events or unscheduled MSS activities from a common cause that result in unauthorized emissions of air contaminants. Scheduled MSS activities are those activities performed by the regulated entity owner or operator that require prior notice and a final report per TCEQ rules.

Reported Incidents

The overall number of incidents reported under 30 TAC Chapter 101, Subchapter F increased by 13% from 4,554 in FY 2018 to 5,141 in FY 2019. While the majority of the increases occurred for EEs, there were also slight increases in Scheduled Maintenance, and Scheduled Startup. A decrease occurred for Excess Opacity. The number of Scheduled Shutdowns remained the same. See Table 5-1 for the complete set of data by TCEQ region related to the total number of reported incidents for FY 2019.

Figure 5-1: Total Number of Incidents Reported Statewide

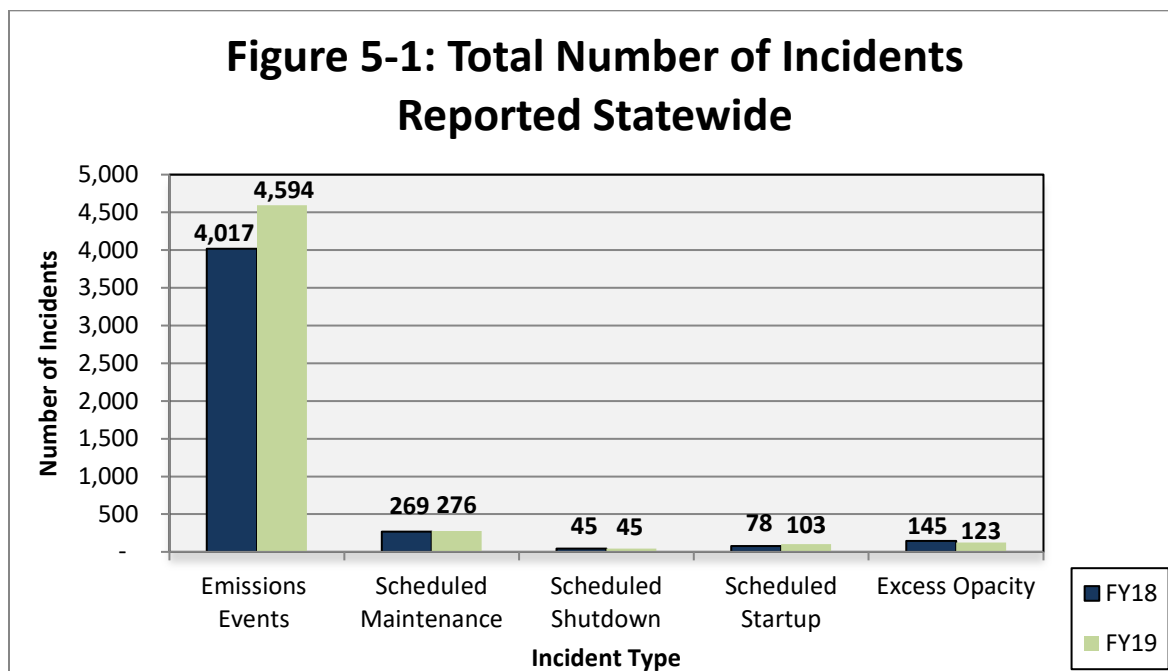


Table 5-1: Total Number of Incidents Reported Statewide under 30 TAC Chapter 101, Subchapter F

Region	Emissions Events	Scheduled Maintenance	Scheduled Shutdown	Scheduled Startup	Excess Opacity	Total
REGION 01 - AMARILLO	56	6	2	5	3	72
REGION 02 - LUBBOCK	176	13	0	0	1	190
REGION 03 - ABILENE	41	8	2	0	3	54
REGION 04 - DFW	36	128	0	1	13	178
REGION 05 - TYLER	42	4	0	2	31	79
REGION 06 - EL PASO	12	5	0	0	0	17
REGION 07 - MIDLAND	3,287	41	6	4	1	3,339
REGION 08 - SAN ANGELO	110	1	2	0	2	115
REGION 09 - WACO	35	2	0	0	1	38
REGION 10 - BEAUMONT	160	3	3	17	17	200
REGION 11 - AUSTIN	18	0	0	0	0	18
REGION 12 - HOUSTON	364	27	3	17	39	450
REGION 13 - SAN ANTONIO	72	2	0	2	7	83
REGION 14 - CORPUS CHRISTI	139	24	27	55	5	250
REGION 15 - HARLINGEN	8	1	0	0	0	9
REGION 16 - LAREDO	38	11	0	0	0	49
Total	4,594	276	45	103	123	5,141

Reported Incidents continued

Table 5-2 displays the incidents reported according to the NAICS of the facility. These ten Industry Classifications reported the most incidents during FY 2019.

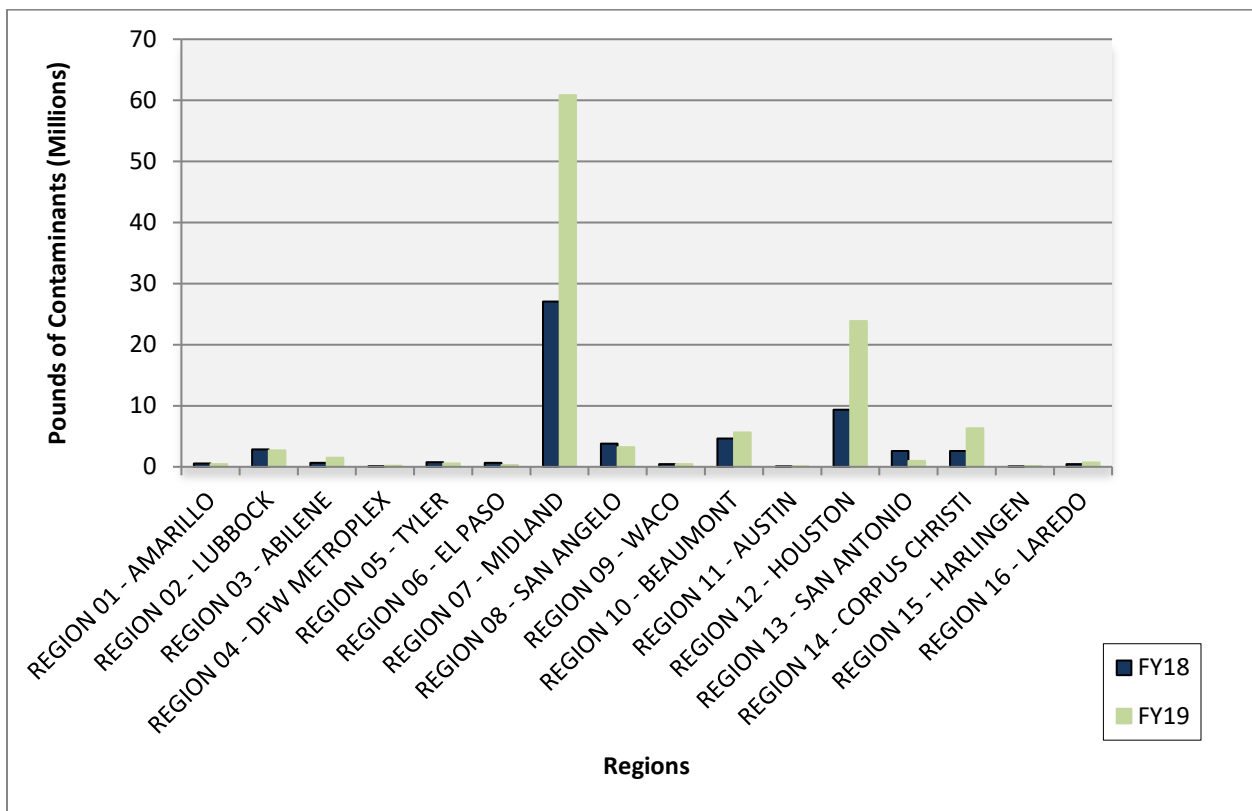
Table 5-2: Incidents Reported by Industry Classification under 30 TAC Chapter 101, Subchapter F

NAICS	Emissions Events	Scheduled Maintenance	Scheduled Startup	Scheduled Shutdown	Excess Opacity	Total
211111: Crude Petroleum and Natural Gas Extraction	2,411	28	2	2	2	2,445
211112: Natural Gas Liquid Extraction	597	20	16	3	4	640
324110: Petroleum Refineries	223	11	14	3	14	265
325199: Basic Organic Chemical Manufacturing	160	15	44	29	9	257
324122: Asphalt Shingle and Coatings Manufacturing	2	120	0	0	1	123
48621 and 486210: Pipeline Transportation of Natural Gas	86	9	0	0	1	96
325181: Alkalies and Chlorine Manufacturing	26	7	0	0	24	57
211120: Crude Petroleum Extraction	56	0	0	0	0	56
325211: Plastics Material and Resin Manufacturing	47	2	0	0	0	49
221122: Electric Power Distribution	39	1	0	0	2	42

Total Quantity of Emissions

The total quantity of reported emissions increased from 56,371,867 pounds in FY 2018 to 107,811,567 pounds in FY 2019. The increase in the Midland Region was primarily due to oil and gas operations in the Permian Basin. The Deer Park Intercontinental Terminals Company (ITC) Fire in the Houston Region contributed more than 15 million pounds to the annual total from that single incident. The Corpus Christi Region had an increase in FY 2019 due to the commissioning of a new facility (Corpus Christi Liquefaction) along with EEs from this facility. See Table 5-3 below for the complete set of data related to pounds of contaminants emitted from regulated entities in each TCEQ region for FY 2019. It should be noted that final reported quantities of emissions are included in the totals, where available. Initial reported quantities are included where final reports were not available at the time this report was prepared.

Figure 5-2: Total Quantity of Emissions Reported Statewide



Note: FY 2018 quantities were revised to reflect final reportable emissions. Additionally, carbon dioxide was inadvertently included in the total quantities published FY 2018 Annual Enforcement Report. Carbon dioxide does not have a reportable quantity (Texas Register, April 11, 2014, implementation of HB 788, 83rd Legislature). FY 2018 quantities have been corrected in this report.

Table 5-3: Total Quantity of Emissions (in pounds) Reported Statewide under 30 TAC Chapter 101, Subchapter F

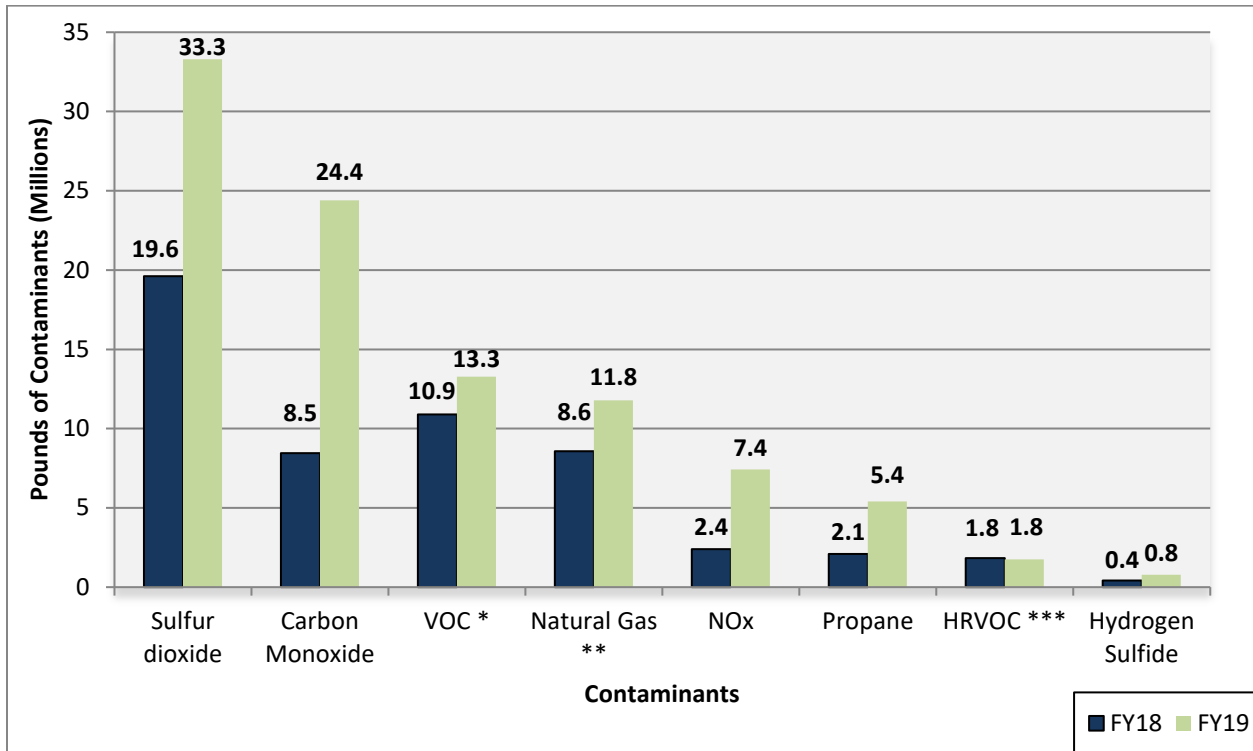
Region	Emissions Events	Scheduled Maintenance	Scheduled Startup	Scheduled Shutdown	Total
Region 01 - Amarillo	433,222	10,793	24,780	149	468,944
Region 02 - Lubbock	2,393,050	305,748	0	0	2,698,797
Region 03 - Abilene	1,497,614	86	0	14,446	1,512,145
Region 04 - DFW	163,441	631	19	0	164,091
Region 05 - Tyler	510,561	11,299	6,807	0	528,668
Region 06 - El Paso	120,840	148,288	0	0	269,128
Region 07 - Midland	55,754,794	4,938,976	62,558	110,179	60,866,507
Region 08 - San Angelo	3,152,792	1,744	0	49,581	3,204,117
Region 09 - Waco	427,747	29,579	0	0	457,327
Region 10 - Beaumont	4,587,380	165,611	882,526	590	5,636,107
Region 11 - Austin	40,092	0	0	0	40,092
Region 12 - Houston	21,387,193	22,977	2,466,603	0	23,876,773
Region 13 - San Antonio	289,076	4,486	670,775	0	964,337
Region 14 - Corpus Christi	1,037,343	229,710	5,054,311	0	6,321,365
Region 15 - Harlingen	120,266	200	0	0	120,466
Region 16 - Laredo	611,670	71,032	0	0	682,702
Total	92,527,083	5,941,159	9,168,380	174,945	107,811,567

Please note the quantities of emissions are rounded to the nearest pound. Opacity events are not included as opacity is reported as a percentage.

Top Contributing Air Contaminants

Figure 5-3 displays the quantity of emissions by contaminant group. Sulfur Dioxide had the highest reported quantity of the contaminants reported under 30 TAC Chapter 101, Subchapter F for FY 2019, with 33.3 million pounds. Emissions of air contaminants increased compared to FY 2018 primarily due to heightened oil and gas operations in the Permian Basin. The Deer Park ITC Fire in the Houston Region contributed 4.8 million pounds of VOC. It should be noted that final reported quantities of emissions are included in the totals, where available. Initial reported quantities are included where final reports were not available at the time this report was prepared. See Table 5-4 for the complete set of data related to the major contaminants released and reported in FY 2019.

Figure 5-3: Top Contributing Air Contaminants Reported Statewide



* Propane, Natural Gas, and HRVOC are not included in the VOC count

** Natural Gas may contain methane and ethane

*** HRVOC (Highly Reactive Volatile Organic Compound) is used to describe the following groups of contaminants: Butadienes, Butenes, Ethylene, and Propylene

Note: FY 2018 quantities were revised to reflect final reportable emissions. Additionally, carbon dioxide was inadvertently included in the total quantities published FY 2018 Annual Enforcement Report. Carbon dioxide does not have a reportable quantity (Texas Register, April 11, 2014, implementation of HB 788, 83rd Legislature). FY 2018 quantities have been corrected in this report.

Table 5-4: Total Quantity of Air Contaminants (in pounds) Reported Statewide under 30 TAC Chapter 101, Subchapter F

Contaminant Reported	Emissions Events	Scheduled Maintenance	Scheduled Startup	Scheduled Shutdown	Total
Sulfur dioxide	28,766,935	3,704,626	746,190	83,295	33,301,047
Carbon Monoxide	17,461,981	773,529	6,154,995	11,162	24,401,668
VOC	12,982,708	89,037	200,342	5,449	13,277,536
Natural Gas	10,778,462	924,453	9,189	66,041	11,778,146
NOx	5,476,121	150,555	1,788,571	5,169	7,420,417
Propane	5,120,856	91,555	179,141	2,736	5,394,288
Hydrogen Sulfide	729,209	42,174	8,732	1,050	781,165

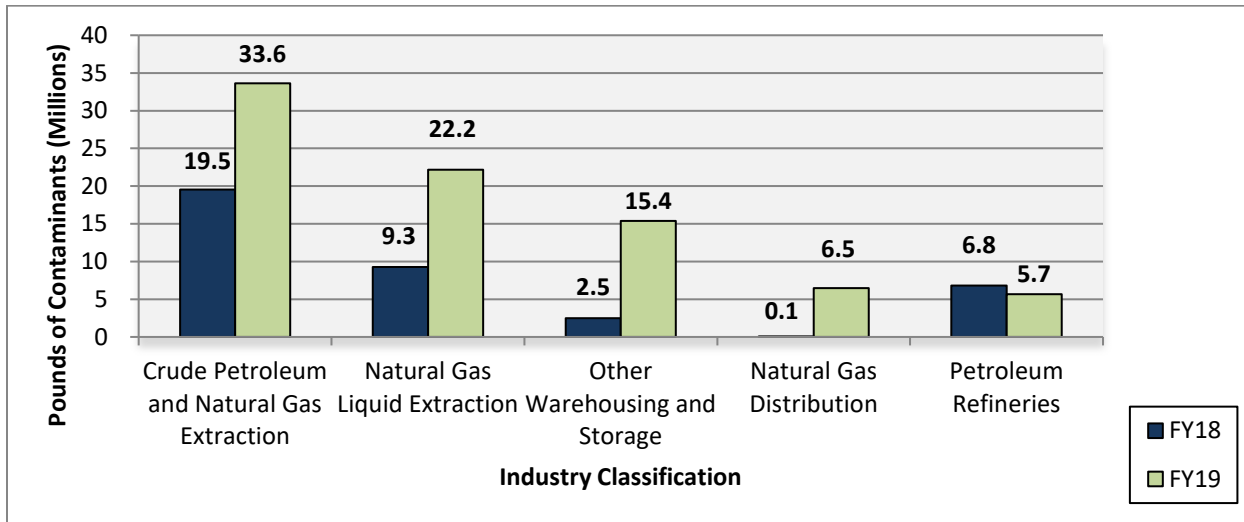
HRVOCs	Emissions Events	Scheduled Maintenance	Scheduled Startup	Scheduled Shutdown	Total
Butadienes	56,605	1	138	0	56,745
Butenes	101,773	352	385	0	102,510
Ethylene	1,179,600	14,260	51,744	0	1,245,603
Propylene	341,900	7,396	2,174	0	351,470
HRVOC Total	1,679,878	22,009	54,442	0	1,756,328

Please note the quantities of emissions are rounded to the nearest pound.

Quantity of Contaminants by Industry Classification

Figure 5-4 displays the total quantity of emissions reported according to the NAICS of the regulated entity. The top source category for reported contaminants statewide in FY 2019 was Crude Petroleum and Natural Gas Liquid Extraction at 33,607,597 pounds, which is 31% of the total air contaminants reported. The second largest quantity of reported contaminants was from Natural Gas Liquid Extraction at 22,187,705 pounds and was approximately 21% of the total air contaminants reported. Other Warehousing and Storage reported the third highest quantity at 15,404,488 pounds, and 14% of the total air contaminants reported. The Deer Park ITC Fire in the Houston Region was the main contributor to this source category. See Table 5-5 for the Industrial Classification that reported the highest quantity of contaminants during FY 2019.

Figure 5-4: Quantity of Contaminants by Industrial Classification



Note: FY 2018 quantities were revised to reflect final reportable emissions. Additionally, carbon dioxide was inadvertently included in the total quantities published FY 2018 Annual Enforcement Report. Carbon dioxide does not have a reportable quantity (Texas Register, April 11, 2014, implementation of HB 788, 83rd Legislature). FY 2018 quantities have been corrected in this report.

Table 5-5: Total Quantity of Air Contaminants (in pounds) by NAICS Code Reported Statewide under 30 TAC Chapter 101, Subchapter F

NAICS	Emissions Events	Scheduled Maintenance	Scheduled Shutdown	Scheduled Startup	Total
211111: Crude Petroleum and Natural Gas Extraction	32,438,210	484,167	14,446	670,775	33,607,597
211112: Natural Gas Liquid Extraction	16,912,279	3,947,089	61,634	1,266,702	22,187,705
493190: Other Warehousing and Storage	15,404,488	0	0	0	15,404,488
221210: Natural Gas Distribution	183,645	37,174	0	6,254,709	6,475,528
324110: Petroleum Refineries	5,091,643	193,816	0	365,731	5,651,190

Please note the quantities of emissions are rounded to the nearest pound. Opacity events are not included (opacity is reported as a percentage).

Incident Investigations

Emissions event investigations are on-demand, statutorily required activities. Staff review every reported incident; however, investigations are not conducted until after the EE is reported, which in some instances may occur in the following fiscal year. Some investigations include multiple incidents. Those incidents where emissions exceeded the regulatory reportable quantity are investigated further. Incidents that are determined not to have exceeded a regulatory reportable quantity are closed after review.

Totals below include investigations and violations as of the end of FY 2019 and do not account for ongoing investigation and enforcement activities. The number of investigations conducted under 30 TAC Chapter 101 increased from 2,442 in FY 2018 to 2,763 in FY 2019. The number of NOV violations decreased slightly from 119 in FY 2018 to 118 in FY 2019 and the number of NOEs increased from 97 in FY 2018 to 146 in FY 2019. See Table 5-6 for the complete set of data related to investigations, NOV violations, and NOEs in response to Scheduled Maintenance, Scheduled Shutdown, Scheduled Startup, EEs, and Opacity for FY 2019.

Figure 5-5: Incident Investigations

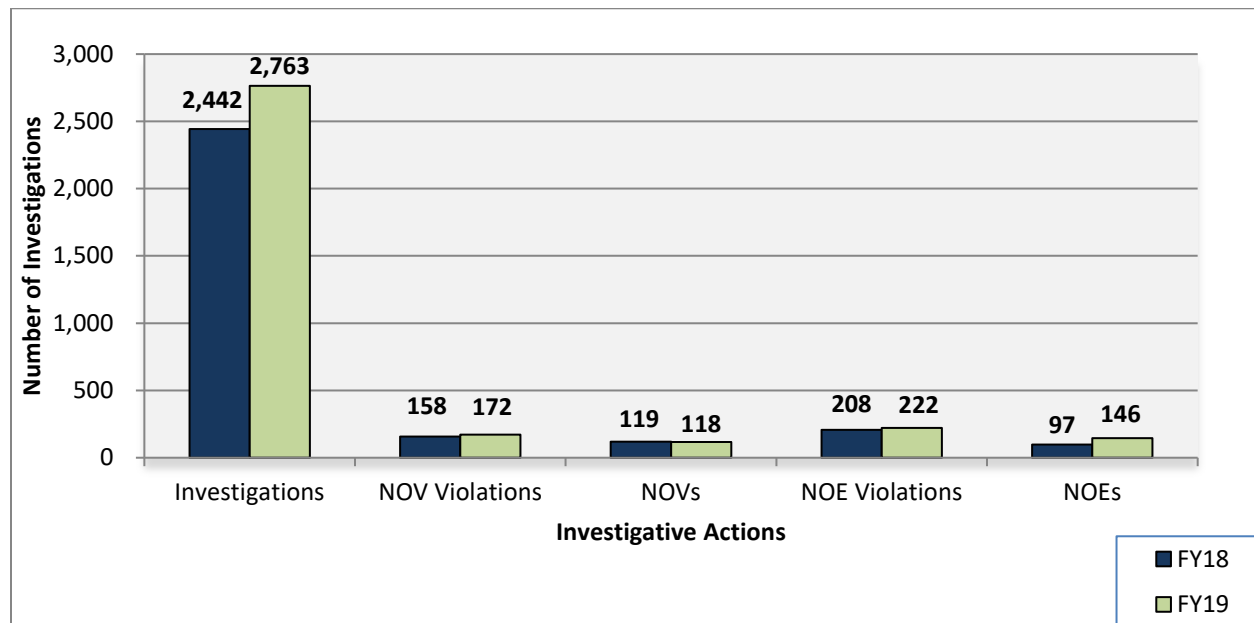


Table 5-6: Agency Response to Incidents Reported under 30 TAC Chapter 101, Subchapter F

Incident Type	Investigations	NOV Violations	NOVs	NOE Violations	NOEs
Emissions Events	2,333	159	112	215	141
Scheduled Maintenance	224	1	1	2	1
Excess Opacity	76	10	4	2	2
Scheduled Startup	85	2	1	3	2
Scheduled Shutdown	45	0	0	0	0
Total	2,763	172	118	222	146

Emissions Events Investigations by Region

The total number of EE Investigations increased from 1,933 in FY 2018 to 2,333 in FY 2019. The Midland Region and the Corpus Christi Region experienced an increase in the number of EEs in FY 2019 which resulted in an increase in the number of EE investigations conducted. See Tables 5-7 and 5-8 for the complete set of FY 2019 data related to EE incidents reported and EE Investigations, respectively.

Figure 5-6: EE Investigations by Region

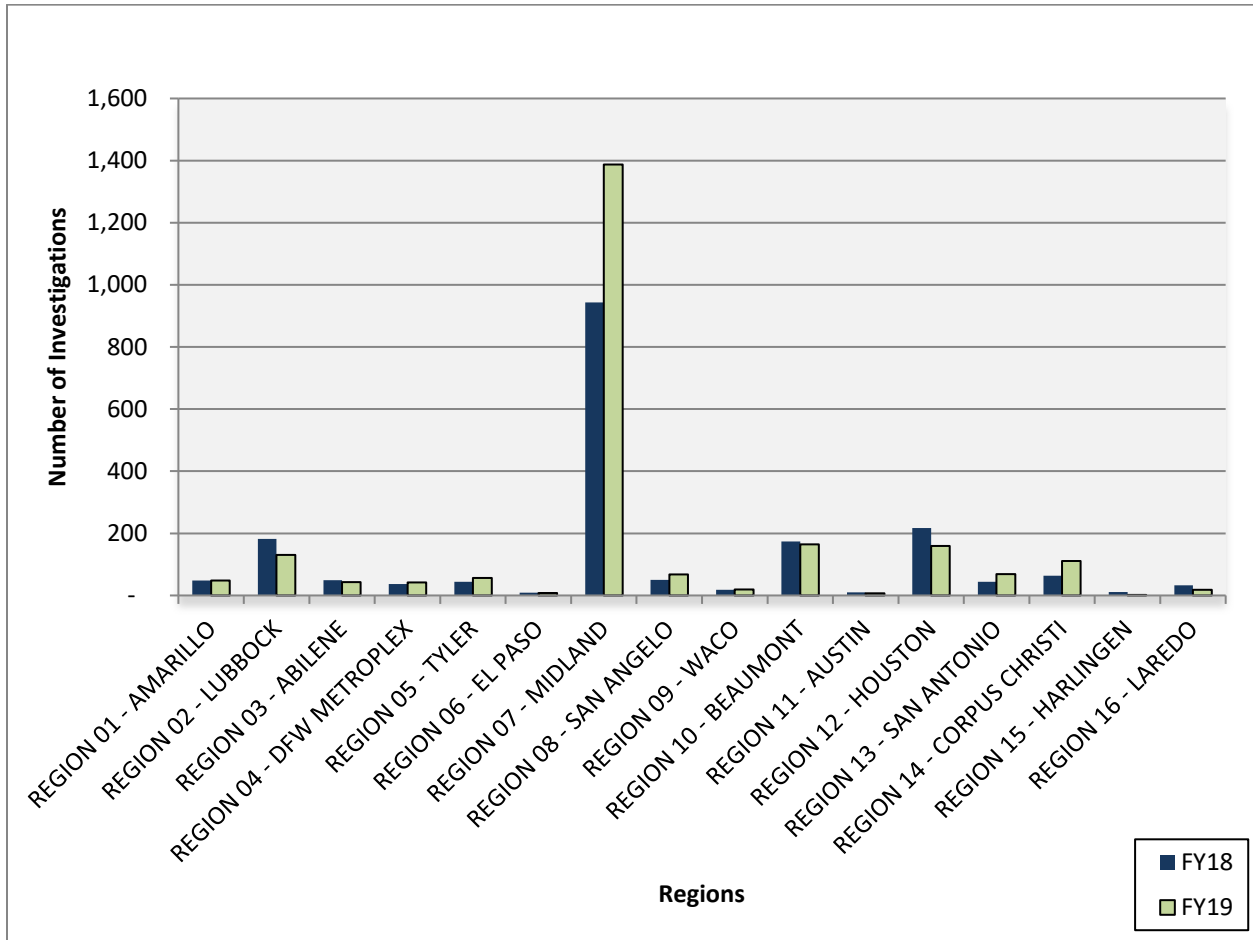


Table 5-7: Total Number of EE Incidents Reported Statewide under 30 TAC Chapter 101, Subchapter F

Region	EE Incidents
Region 01 - Amarillo	56
Region 02 - Lubbock	176
Region 03 - Abilene	41
Region 04 - DFW Metroplex	36
Region 05 - Tyler	42
Region 06 - El Paso	12
Region 07 - Midland	3,287
Region 08 - San Angelo	110
Region 09 - Waco	35
Region 10 - Beaumont	160
Region 11 - Austin	18
Region 12 - Houston	364
Region 13 - San Antonio	72
Region 14 - Corpus Christi	139
Region 15 - Harlingen	8
Region 16 - Laredo	38
Total	4,594

Table 5-8: Agency Investigations of EEs under 30 TAC 101, Subchapter F

Region	EE Investigations
Region 01 - Amarillo	48
Region 02 - Lubbock	131
Region 03 - Abilene	43
Region 04 - DFW Metroplex	42
Region 05 - Tyler	56
Region 06 - El Paso	8
Region 07 - Midland	1,387
Region 08 - San Angelo	68
Region 09 - Waco	19
Region 10 - Beaumont	165
Region 11 - Austin	7
Region 12 - Houston	159
Region 13 - San Antonio	69
Region 14 - Corpus Christi	111
Region 15 - Harlingen	2
Region 16 - Laredo	18
Total	2,333

As previously discussed, every incident reported to the agency is reviewed by TCEQ staff. On some occasions, multiple reported incidents may be included in one investigation.

Excessive Emissions Events

The number of Excessive EEs determinations decreased from 13 in FY 2018 to 10 in FY 2019. The number of approved Corrective Action Plans (CAPs) increased from four CAPs in FY 2018 to 10 CAPs in FY 2019. See Table 5-9 for the complete set of data. Owners or operators are required to file a CAP within 60 days after receiving notification that an EE was deemed excessive. A CAP must identify four things: the cause or causes of the Excessive EE (including all contributing factors that led to the EE); the control devices or other measures that are reasonably designed to prevent or minimize similar EEs in the future; operational changes the owner or operator will take to prevent or minimize similar EEs in the future; and time frames within which the owner or operator will implement the components of the CAP.

Figure 5-7: Excessive Determinations and CAPs

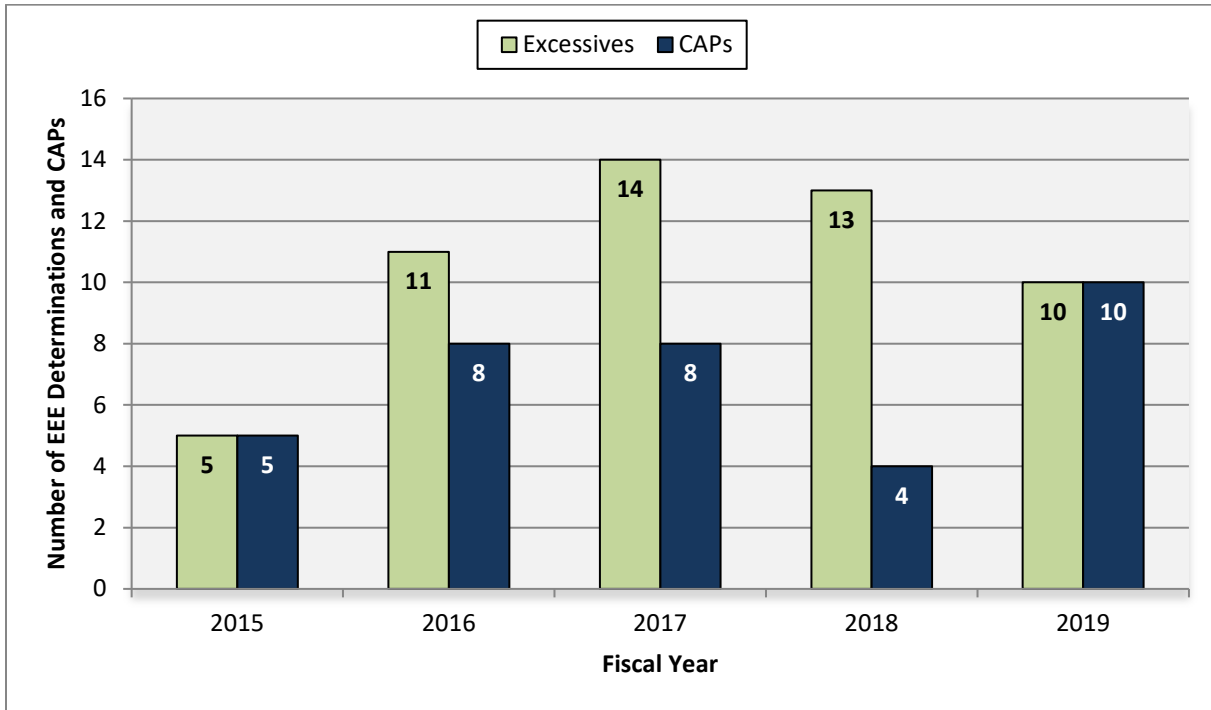


Table 5-9: Excessive EE Determinations and CAPs under 30 TAC Chapter 101, Subchapter F

Region	Excessive EE	Approved CAPs
Region 01 - Amarillo	0	0
Region 02 - Lubbock	0	0
Region 03 - Abilene	0	0
Region 04 - DFW Metroplex	0	0
Region 05 - Tyler	1	0
Region 06 - El Paso	0	0
Region 07 - Midland	0	0
Region 08 - San Angelo	0	0
Region 09 - Waco	0	0
Region 10 - Beaumont	0	0
Region 11 - Austin	0	0
Region 12 - Houston	7	10
Region 13 - San Antonio	1	0
Region 14 - Corpus Christi	1	0
Region 15 - Harlingen	0	0
Region 16 - Laredo	0	0
Total	10	10

Chapter 6: Aggregate Production Operations

As a result of HB 571, the 82nd Legislative Session added a requirement in TWC Chapter 28A for the registration and investigation of certain APOs. The law requires the Commission to conduct an annual survey to identify all active APOs in the state and to ensure each active APO is registered. The law also requires the Commission to report the results of the survey, the number and general location of the registered APOs, the number of investigators trained in multiple areas related to the investigations, the number of investigations conducted, and the results of the investigations.

Aggregates are materials used in construction, including sand, gravel, crushed and broken limestone, crushed and broken granite, dirt, soil, or caliche. The TCEQ adopted new rules implementing HB 571 on June 13, 2012, which are codified in 30 TAC Chapter 342. HB 2582 from the 85th Legislative Session updated exemptions for facilities that extract specialty or terrazzo-type stone removed or extracted exclusively for decorative or artistic uses. Facilities are also exempted if the portion of the specialty or terrazzo-type stone horizon that is exposed for current production for commercial sale in the site does not exceed five acres. The revised definition of an APO can be found in 30 TAC § 342.1(1).

Commercial APOs are required to register with the TCEQ not later than the 10th business day before the beginning date of the regulated activity, to renew their registration annually, and to pay registration fees.

Training Program

The TCEQ developed a training program specific to the performance of APO investigations. The training program focuses on authorization requirements and regulatory controls most commonly required at facilities subject to the APO registration requirement. Since the beginning of the program, 120 investigators have completed the curriculum.

Number and General Location of Registered Facilities

For FY 2019, 1,017 APOs have active registrations with the TCEQ. The number of registered APOs per region is provided in Table 6-1.

Table 6-1: Registered APOs per Region

Region	Number of Registered APOs
Region 1 – Amarillo	27
Region 2 – Lubbock	17
Region 3 – Abilene	61
Region 4 – Dallas/Fort Worth	131
Region 5 – Tyler	37
Region 6 – El Paso	33
Region 7 – Midland	80
Region 8 – San Angelo	37
Region 9 – Waco	93
Region 10 – Beaumont	47
Region 11 – Austin	96
Region 12 – Houston	146
Region 13 – San Antonio	118
Region 14 – Corpus Christi	58
Region 15 – Harlingen	17
Region 16 – Laredo	19
Total	1,017

Investigations and Results

In FY 2019, agency staff completed a total of 1,443 APO surveys and 318 onsite Comprehensive Compliance Investigations (CCIs). Table 6-2 shows the breakdown of CCIs by TCEQ Regional Office.

Table 6-2: APO Comprehensive Compliance Investigations by Region

Region	APO CCIs
Region 1 – Amarillo	18
Region 2 – Lubbock	8
Region 3 – Abilene	24
Region 4 – Dallas/Fort Worth	43
Region 5 – Tyler	13
Region 6 – El Paso	10
Region 7 – Midland	7
Region 8 – San Angelo	13
Region 9 – Waco	25
Region 10 – Beaumont	10
Region 11 – Austin	35
Region 12 – Houston	31
Region 13 – San Antonio	43
Region 14 – Corpus Christi	22
Region 15 – Harlingen	7
Region 16 – Laredo	9
Total	318

In addition, there were 44 complaint investigations, 23 follow-up investigations, and 77 file reviews for a total of 462 APO investigations. These surveys and investigations resulted in issuance of 161 NOVs and 35 NOEs. This includes investigations at APO facilities that resulted in either an NOV or NOE with one or more violations of a rule under TCEQ jurisdiction. However, violations cited may not be directly related to 30 TAC Chapter 342. In addition, 28 administrative orders were issued, including ten administrative orders with violations for failure to register or renew an existing registration. There was a total of \$157,132 to be paid as penalties. Table 6-3 lists surveys, investigations, and enforcement history from previous years.

Table 6-3: Investigation and Enforcement History

FY	Annual Surveys	Investigations	NOVs Issued	NOEs	Administrative Orders Issued
2015	4,470	85	148	75	26
2016	2,861	94	139	54	63
2017	2,341	346	150	22	25
2018	1,264	468	209	19	16
2019	1,443	462	161	35	28

Chapter 7: Tier II Chemical Reporting Program

Texas Tier II Chemical Reporting Program and Local Emergency Planning Committee (LEPC) Grant Program

On September 1, 2015, the Texas Tier II Chemical Reporting Program (Tier II Program) was transferred from the Texas Department of State Health Services to the TCEQ pursuant to House Bill 942, enacted by the 84th Texas Legislature and signed into law by the Governor on June 16, 2015.

On March 1, 2019, the Tier II Program finished its third annual reporting period at the TCEQ with 82,741 chemical inventory reports received from the regulated community and more than \$1 million in fees collected.

The new Tier II Reporting online application was released in FY 2019 and was used for the first time by the regulated community to submit Tier II Chemical Reports. The Tier II Team received a high volume of phone calls and emails from the public (over 10,000 incoming and outgoing calls and emails) and the team worked into May 2019 to assist customers in completing their reporting.

The Tier II Program has reviewed over 16,353 facilities and initiated compliance actions to correct report deficiencies for 2,015 facilities that submitted reports with either partial or incorrect information. By August 2019, deficiencies at 1,838 facilities had been resolved. During FY 2019, the TCEQ conducted 263 Tier II investigations including 20 at ammonium nitrate storage facilities.

As a part of legislative implementation, the TCEQ also created the Texas LEPC Grant Program to assist LEPCs in fulfilling their responsibilities under the Emergency Planning and Community Right-to-Know Act. The grant program awarded \$4.13 million to 56 Texas LEPCs during its first year in FY 2017. In the second grant round, FY 2019, of the grant program \$128,768 was awarded to 27 LEPCs.

Chapter 8: Results of Enforcement Actions

Since FY 1998, the TCEQ has been compiling statistical information regarding the results of enforcement actions taken by the TCEQ and through cases referred to the OAG. Once administrative or civil judicial orders are finalized, the Enforcement Division staff review each case and determine if the enforcement action had an impact or potential impact on public health and the environment. Staff also classify some of the actions required to achieve compliance, including an estimate of the cost of compliance to the violators. This statistical data indicates that as a result of administrative and civil judicial orders in FY 2019, alleged violators spent more than \$33 million to correct violations and take steps necessary to protect the environment. Figure 8-1 illustrates the positive impact enforcement orders have on human health and the environment.

Figure 8-1: Impact Analysis of Administrative and Civil Judicial Orders

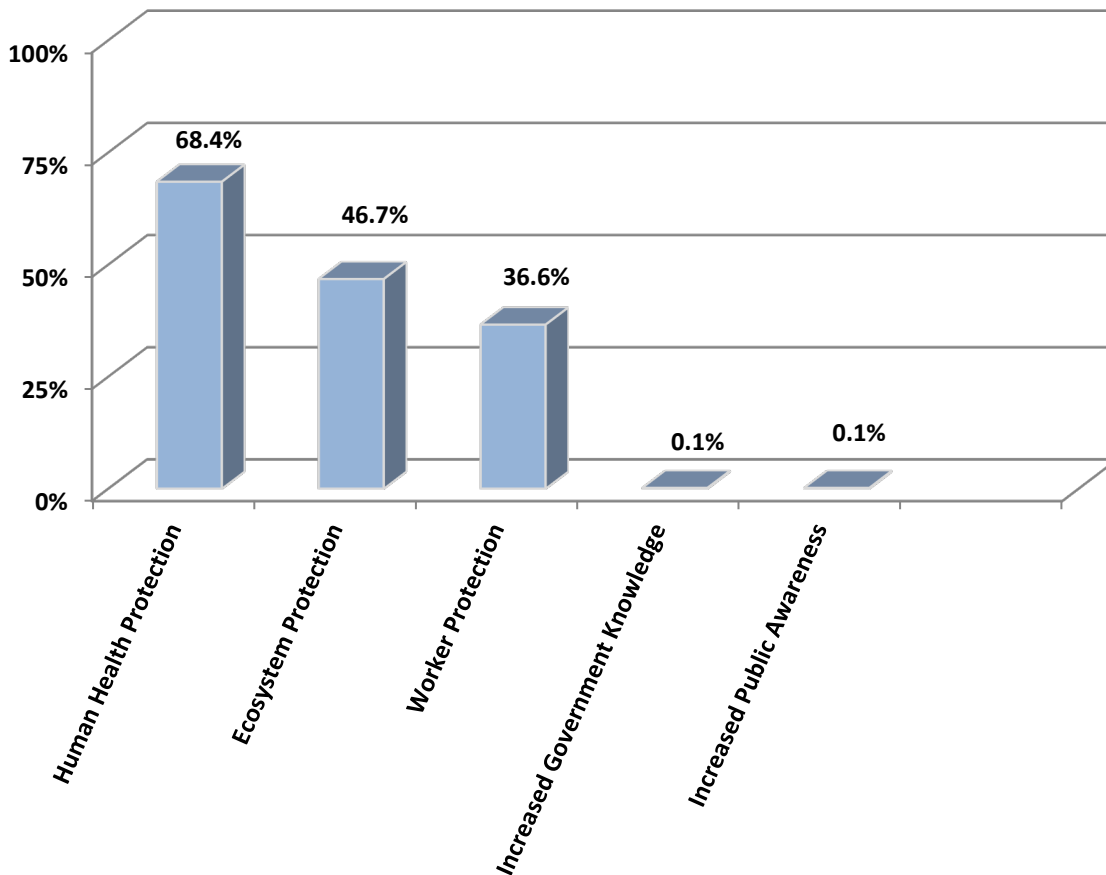


Figure 8-2 depicts the number of enforcement orders that resulted in the following: pollutant reduction; permit application; emissions or discharge change; storage or disposal change; and industrial process change.

Figure 8-2: Results of Administrative and Civil Judicial Orders – Permitting and Process Changes

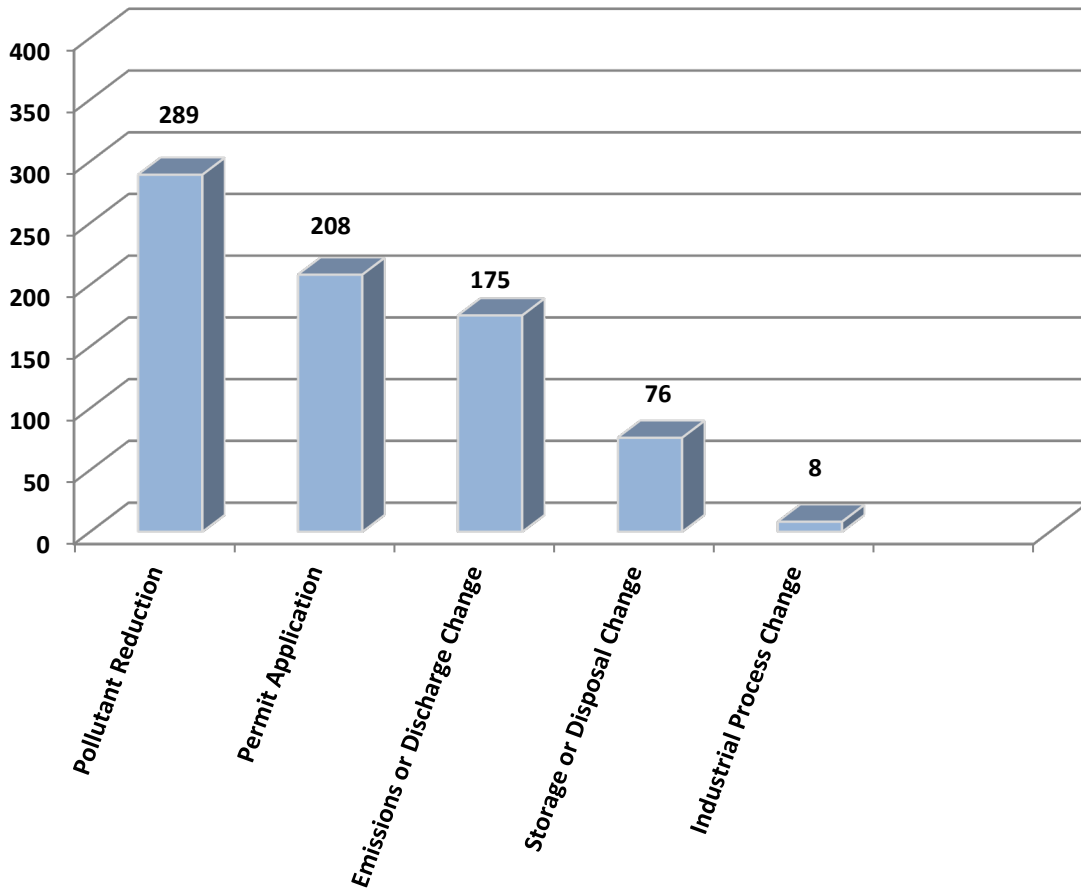


Figure 8-3 depicts the number of enforcement orders that resulted in the following: record keeping; monitoring and sampling; reporting; testing; training; removal; site assessment; remediation; labeling and manifesting; and restoration.

Figure 8-3: Results of Administrative and Civil Judicial Orders – Clean Up, Monitoring, and Recordkeeping Requirements

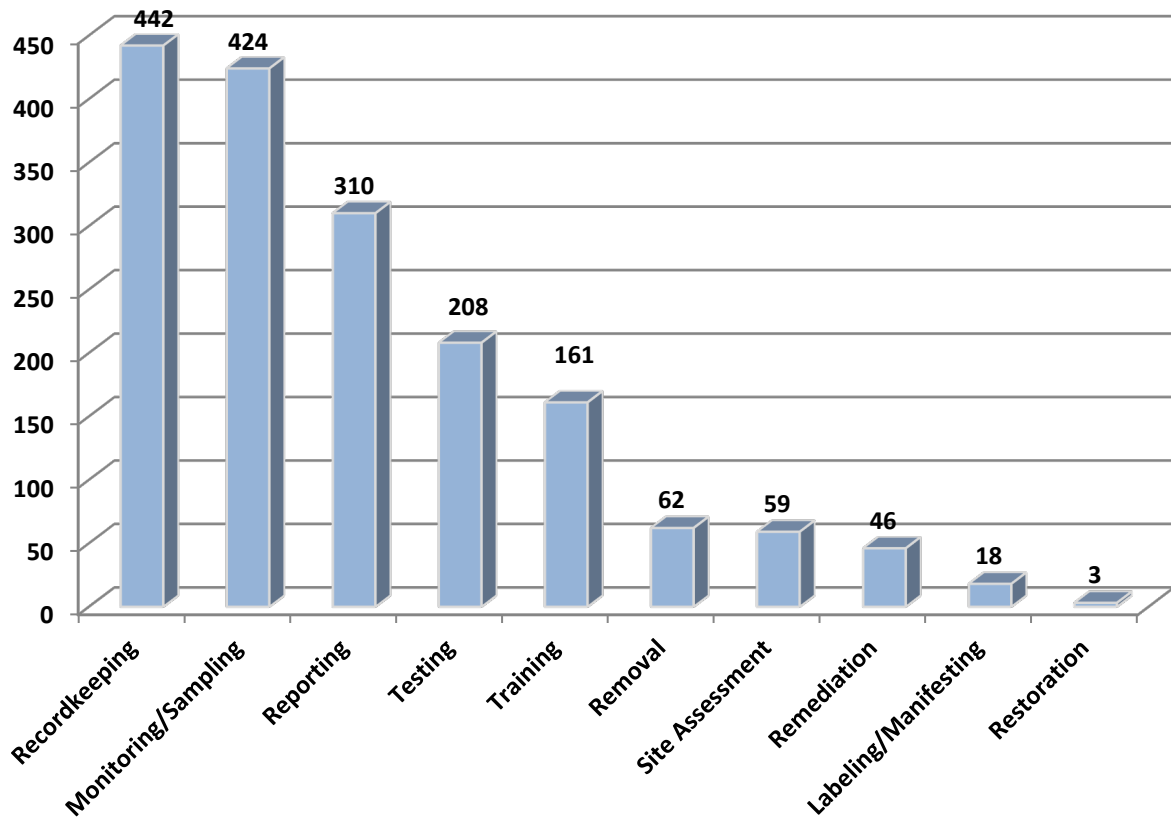


Figure 8-4 depicts the number of enforcement orders that resulted in the following pollution prevention (P2) related activities: improved housekeeping, equipment and technology modification; process and procedure modification; and included in a SEP.

Figure 8-4: Results of Administrative and Civil Judicial Orders – Pollution Prevention

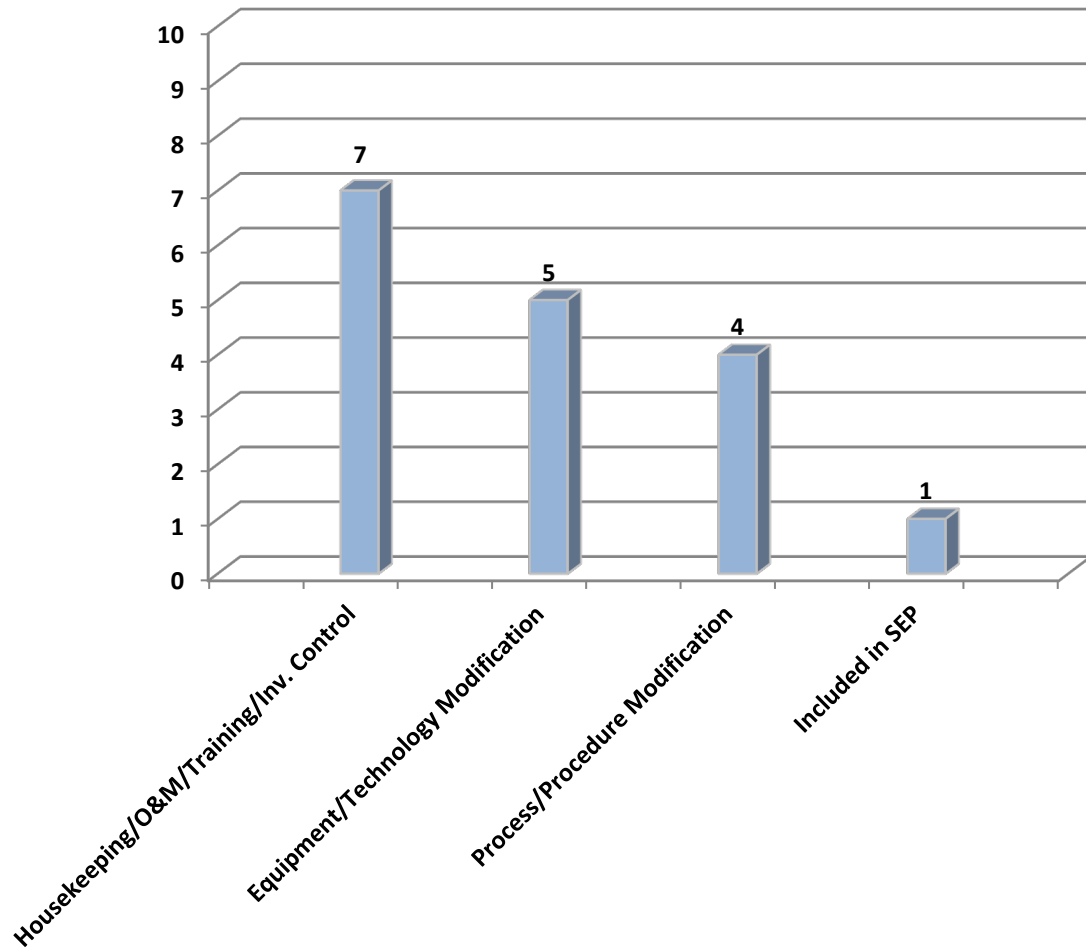


Table 8-1 depicts an estimation of the largest amount of pollutant reductions through enforcement actions finalized in FY 2019. Overall, it is estimated³ that TCEQ final enforcement actions resulted in, or will result in, over 63 million pounds (lbs) of pollutants eliminated or reduced, or the routes of exposure reduced, in the environment.

Table 8-1: Top 25 Estimated Pollutant Reductions from Orders Issued

Pollutant Name	Amount Reduced (lbs)	Medium
Wastewater discharge, industrial and municipal	21,164,165	WATER
Municipal Solid Waste	17,052,739	LAND, WATER
Sewage	8,102,142	WATER
Mulch	7,027,500	LAND
Tires (Scrap)	4,505,080	LAND
Sulfur dioxide	1,489,571	AIR
Volatile Organic Compounds	1,436,114	AIR
Carbon Monoxide	806,743	AIR
Sandblasting waste	621,600	LAND
Sludge	560,000	LAND
Industrial waste	315,684	AIR, LAND
N-Hexane	154,000	AIR
Nitrogen Oxides (NOx)	140,626	AIR
Particulate Matter	39,805	AIR
Ethylene	26,530	AIR
Hydrogen Sulfide	19,870	AIR
Ammonia	10,476	AIR
Caustic solution	8,330	LAND
Diesel fuel	8,000	LAND
Listed Waste	6,914	LAND
Propylene	6,123	AIR
Vinyl Chloride Monomer	3,489	AIR
Total suspended solids	3,132	WATER
Ethylene (gaseous)	2,960	AIR
Acetone	2,625	AIR

3 Estimations were based upon best educated predictions or knowledge of the technical staff. In those cases where cleanups were not completed yet, estimates of the amount of contaminants to be removed were used. In those cases where emissions or discharges were reduced or eliminated by the enforcement action, the estimation was based upon an assumption that the violations would have continued at least for one year if the TCEQ had not acted.

Tables Descriptions

Investigations

Table T-1A summarizes, by TCEQ region and type, total investigations conducted during FY 2019.
Table T-1B summarizes, by TCEQ region and type, on-site investigations conducted during FY 2019.
Table T-2A summarizes, by TCEQ region and type, total investigations conducted during FY 2018.
Table T-2B summarizes, by TCEQ region and type, on-site investigations conducted during FY 2018.
Table T-3A summarizes, by TCEQ region and type, total investigations conducted during FY 2017.
Table T-3B summarizes, by TCEQ region and type, on-site investigations conducted during FY 2017.
Table T-4A summarizes, by TCEQ region and type, total investigations conducted during FY 2016.
Table T-4B summarizes, by TCEQ region and type, on-site investigations conducted during FY 2016.
Table T-5A summarizes, by TCEQ region and type, total investigations conducted during FY 2015.
Table T-5B summarizes, by TCEQ region and type, on-site investigations conducted during FY 2015.
Table T-6A summarizes, by TCEQ region and type, total investigations conducted during FY 2014.
Table T-6B summarizes, by TCEQ region and type, on-site investigations conducted during FY 2014.

Complaints

Table T-7 summarizes, by TCEQ region and type, complaints investigated during FY 2019.
Table T-8 summarizes, by TCEQ region and type, complaints investigated during FY 2018.
Table T-9 summarizes, by TCEQ region and type, complaints investigated during FY 2017.
Table T-10 summarizes, by TCEQ region and type, complaints investigated during FY 2016.
Table T-11 summarizes, by TCEQ region and type, complaints investigated during FY 2015.
Table T-12 summarizes, by TCEQ region and type, complaints investigated during FY 2014.

Notices of Violation (NOV) by Regional Offices

Table T-13 summarizes NOVs issued during FY 2019 by the TCEQ Regional Offices.
Table T-14 summarizes NOVs issued during FY 2018 by the TCEQ Regional Offices.
Table T-15 summarizes NOVs issued during FY 2017 by the TCEQ Regional Offices.
Table T-16 summarizes NOVs issued during FY 2016 by the TCEQ Regional Offices.
Table T-17 summarizes NOVs issued during FY 2015 by the TCEQ Regional Offices.
Table T-18 summarizes NOVs issued during FY 2014 by the TCEQ Regional Offices.

Notices of Violation by Central Office

Table T-19 summarizes NOVs issued during FY 2019 by the TCEQ Central Office in Austin.

Table T-20 summarizes NOVs issued during FY 2018 by the TCEQ Central Office in Austin.

Table T-21 summarizes NOVs issued during FY 2017 by the TCEQ Central Office in Austin.

Table T-22 summarizes NOVs issued during FY 2016 by the TCEQ Central Office in Austin.

Table T-23 summarizes NOVs issued during FY 2015 by the TCEQ Central Office in Austin.

Table T-24 summarizes NOVs issued during FY 2014 by the TCEQ Central Office in Austin.

Administrative Orders Issued

Table T-25 summarizes the administrative orders issued by the TCEQ for FY 2019.

Table T-26 summarizes the administrative orders issued by the TCEQ for FY 2018.

Table T-27 summarizes the administrative orders issued by the TCEQ for FY 2017.

Table T-28 summarizes the administrative orders issued by the TCEQ for FY 2016.

Table T-29 summarizes the administrative orders issued by the TCEQ for FY 2015.

Table T-30 summarizes the administrative orders issued by the TCEQ for FY 2014.

Court Orders Issued

Table T-31 summarizes the judicial orders issued through representation by the Office of Attorney General for FY 2019.

Table T-32 summarizes the judicial orders issued through representation by the Office of Attorney General for FY 2018.

Table T-33 summarizes the judicial orders issued through representation by the Office of Attorney General for FY 2017.

Table T-34 summarizes the judicial orders issued through representation by the Office of Attorney General for FY 2016.

Table T-35 summarizes the judicial orders issued through representation by the Office of Attorney General for FY 2015.

Table T-36 summarizes the judicial orders issued through representation by the Office of Attorney General for FY 2014.

Table T-1A: Total Investigations Conducted FY 2019 (9/1/2018 – 8/31/2019)

Table T-1A: Total Investigations ¹ Conducted FY 2019 (9/1/2018 – 8/31/2019)																
	AGRI	APO	AIR	EA	IHW ²	MSW	OC	OSSF	PST	PWS ³	RAD	WQ	WR	UIC	MM ⁴	TOTAL
Region 1	84	32	613	0	78	59	1	292	203	158	0	245	2	68	8	1,843
Region 2	10	70	385	0	86	111	0	110	245	246	0	265	0	0	37	1,565
Region 3	52	34	389	0	68	81	1	160	234	260	0	803	15	0	28	2,125
Region 4	215	362	2,295	0	372	184	18	457	1,670	985	0	3,663	33	1	99	10,354
Region 5	75	66	1,197	0	239	92	7	67	377	530	0	2,793	78	4	181	5,706
Region 6	0	9	722	0	91	69	1	39	134	58	0	171	0	0	69	1,363
Region 7	0	30	3,206	0	172	37	0	58	223	199	0	240	1	4	27	4,197
Region 8	6	162	414	0	72	103	0	64	80	133	0	244	10	0	61	1,349
Region 9	24	143	673	0	141	150	0	20	434	429	0	1,319	12	0	57	3,402
Region 10	0	29	1,644	0	257	245	1	794	376	489	0	1,866	203	36	71	6,011
Region 11	2	205	397	996	71	137	2	26	520	387	0	1,065	42	0	103	3,953
Region 12	7	329	3,537	0	363	196	8	340	1,450	1,530	1	8,470	13	89	193	16,526
Region 13	14	345	823	676	100	158	2	7	518	471	4	954	193	3	162	4,430
Region 14	4	44	1,010	0	125	208	0	0	271	301	2	1,428	0	72	129	3,594
Region 15	2	7	460	0	31	148	0	3	243	122	1	642	0	2	73	1,734
Region 16	2	16	337	0	37	71	0	18	134	117	6	308	2	7	39	1,094
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	38,414	0	0	38,414
TOTALS	497	1,883	18,102	1,672	2,303	2,049	41	2,455	7,112	6,415	14	24,476	39,018	286	1,337	107,660

1 Total Investigations is a summary of ALL investigations conducted by TCEQ staff, local air programs, and contractors and includes on-site, record reviews and complaint investigations.

2 DC and ER are included with IHW.

3 PWS investigations include Municipal Utility District Construction investigations.

4 Multi-Media includes investigations with one or more different parent programs and Tier II.

Table T-1B: On-site Investigations Conducted FY 2019 (9/1/2018 – 8/31/2019)

Table T-1B: On-site Investigations⁵ Conducted FY 2019 (9/1/2018 - 8/31/2019)																
	AGRI	APO	AIR	EA	IHW⁶	MSW	OC	OSSF	PST	PWS⁷	RAD	WQ	WR	UIC⁸	MM⁹	TOTAL
Region 1	79	23	268	0	32	46	0	146	190	101	0	39	2	29	8	963
Region 2	7	18	102	0	38	78	0	53	233	118	0	48	0	0	31	726
Region 3	39	28	125	0	21	70	0	87	200	147	0	227	14	0	28	986
Region 4	137	83	1,074	0	106	119	0	208	1,495	646	0	641	27	0	96	4,632
Region 5	60	21	185	0	128	83	0	33	353	335	0	616	76	1	176	2,067
Region 6	0	9	629	0	48	61	0	18	117	30	0	82	0	0	59	1,053
Region 7	0	26	129	0	97	26	0	23	212	150	0	20	1	0	26	710
Region 8	3	50	62	0	42	73	0	24	66	55	0	74	3	0	40	492
Region 9	16	58	190	0	34	124	0	20	364	237	0	201	4	0	55	1,303
Region 10	0	15	741	0	124	207	0	485	326	293	0	209	203	9	69	2,681
Region 11	1	43	232	417	23	116	0	11	473	268	0	181	40	0	99	1,904
Region 12	6	319	1,930	0	106	165	0	174	1,318	1,058	1	856	7	20	187	6,147
Region 13	11	54	369	251	44	131	0	6	480	278	2	295	191	1	159	2,272
Region 14	4	35	546	0	50	197	0	0	257	228	1	227	0	23	124	1,692
Region 15	2	7	244	0	18	130	0	3	216	84	1	139	0	0	71	915
Region 16	2	13	238	0	19	65	0	13	113	59	3	63	2	2	37	629
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	38,414	0	0	38,414
TOTALS	367	802	7,064	668	930	1,691	0	1,304	6,413	4,087	8	3,918	38,984	85	1,265	67,586

5 Totals include all on-site investigations conducted by TCEQ staff, local air programs, and contractors. Does not include record review and other offsite investigations.

6 DC is included with IHW.

7 PWS investigations include Municipal Utility District Construction investigations.

8 UIC also includes some investigations previously counted towards IHW

9 Multi-Media includes investigations with one or more different parent programs and Tier II.

Table T-2A: Total Investigations Conducted FY 2018 (9/1/2017 – 8/31/2018)

Table T-2A: Total Investigations ¹⁰ Conducted FY 2018 (9/1/2017 – 8/31/2018)																
	AGRI	APO	AIR	EA	IHW ¹¹	MSW	OC	OSSF	PST	PWS ¹²	RAD	WQ	WR	UIC	MM ¹³	TOTAL
Region 1	68	19	665	0	85	59	0	298	337	91	0	204	0	62	8	1,896
Region 2	23	43	451	0	47	92	0	173	126	241	0	229	0	0	32	1,457
Region 3	38	38	369	0	60	54	1	135	338	310	0	755	22	0	24	2,144
Region 4	203	379	2,433	0	312	109	15	446	1,861	1,014	2	3,252	23	2	99	10,150
Region 5	87	30	1,076	0	195	62	4	98	481	493	0	2,601	57	7	172	5,363
Region 6	0	8	738	0	94	68	1	14	169	60	0	164	0	0	81	1,397
Region 7	0	38	2,157	0	165	29	0	43	150	109	124	169	4	6	27	3,021
Region 8	10	174	325	0	79	67	1	90	94	120	0	197	9	0	42	1,208
Region 9	28	218	741	0	94	70	1	1	447	471	0	1,321	13	0	16	3,421
Region 10	1	47	1,513	0	245	510	0	699	458	446	0	1,870	81	30	31	5,931
Region 11	1	225	477	872	67	94	2	30	350	286	0	1,007	283	0	28	3,722
Region 12	3	112	3,742	0	244	1,116	2	299	1,514	1,594	4	8,626	27	77	88	17,448
Region 13	7	336	717	557	87	136	2	11	649	450	2	928	1	4	81	3,968
Region 14	6	34	867	0	127	1,208	1	2	323	295	2	1,350	3	56	65	4,339
Region 15	1	5	334	0	25	147	0	3	245	102	2	622	0	3	51	1,540
Region 16	0	19	322	0	38	65	0	21	163	128	3	305	1	7	39	1,111
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	35,409	0	0	35,409
TOTALS	476	1,725	16,927	1,429	1,964	3,886	30	2,363	7,705	6,210	139	23,600	35,933	254	884	103,525

10 Total Investigations is a summary of ALL investigations conducted by TCEQ staff, local air programs, and contractors and includes on-site, record reviews and complaint investigations.

11 DC and ER are included with IHW.

12 PWS investigations include Municipal Utility District Construction investigations.

13 Multi-Media includes investigations with one or more different parent programs and Tier II.

Table T-2B: On-site Investigations Conducted FY 2018 (9/1/2017 – 8/31/2018)

Table T-2B: On-site Investigations¹⁴ Conducted FY 2018 (9/1/2017 - 8/31/2018)																
	AGRI	APO	AIR	EA	IHW¹⁵	MSW	OC	OSSF	PST	PWS¹⁶	RAD	WQ	WR	UIC¹⁷	MM¹⁸	TOTAL
Region 1	64	8	248	0	38	52	0	147	327	56	0	37	0	21	8	1,006
Region 2	10	28	85	0	30	76	0	80	107	121	0	38	0	0	21	596
Region 3	26	32	124	0	23	44	0	75	296	125	0	169	21	0	24	959
Region 4	167	94	1,462	0	102	76	0	247	1,683	652	0	541	18	0	96	5,138
Region 5	68	29	162	0	104	47	0	38	464	304	0	473	56	0	172	1,917
Region 6	0	8	653	0	51	62	0	5	151	40	0	64	0	0	73	1,107
Region 7	0	35	171	0	116	17	0	21	144	51	124	36	3	2	23	743
Region 8	6	110	75	0	44	40	0	42	80	49	0	55	5	0	32	538
Region 9	24	65	209	0	18	53	0	0	370	249	0	250	3	0	15	1,256
Region 10	1	26	484	0	101	473	0	447	362	247	0	198	80	3	27	2,449
Region 11	0	36	267	0	24	87	0	18	318	205	0	176	259	0	25	1,415
Region 12	3	104	1,863	0	83	1,094	0	148	1,404	1,241	3	858	19	14	85	6,919
Region 13	4	53	304	0	29	116	0	7	610	205	2	250	1	0	81	1,662
Region 14	6	29	515	0	41	1,199	0	2	300	220	2	169	2	11	61	2,557
Region 15	1	5	162	0	17	134	0	3	217	73	1	142	0	0	49	804
Region 16	0	16	220	0	13	62	0	17	144	73	3	77	1	1	38	665
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	35,409	0	0	35,409
TOTALS	380	678	7,004	0	834	3,632	0	1,297	6,977	3,911	135	3,533	35,877	52	830	65,140

14 Totals include all on-site investigations conducted by TCEQ staff, local air programs, and contractors. Does not include record review and other offsite investigations.

15 DC is included with IHW.

16 PWS investigations include Municipal Utility District Construction investigations.

17 UIC also includes some investigations previously counted towards IHW

18 Multi-Media includes investigations with one or more different parent programs and Tier II.

Table T-3A: Total Investigations Conducted FY 2017 (9/1/2016 – 8/31/2017)

Table T-3A: Total Investigations ¹⁹ Conducted FY 2017 (9/1/2016 – 8/31/2017)																
	AGRI	APO	AIR	EA	IHW ²⁰	MSW	OC	OSSF	PST	PWS ²¹	RAD	WQ	WR	UIC	MM ²²	TOTAL
Region 1	83	78	623	0	70	69	4	281	176	118	0	231	4	71	8	1,816
Region 2	24	113	525	0	47	60	4	113	186	277	0	215	0	0	66	1,630
Region 3	32	191	392	0	51	25	3	122	222	269	0	747	16	0	9	2,079
Region 4	159	320	2,804	0	227	169	38	312	1,797	902	0	3,315	43	2	72	10,160
Region 5	114	144	955	0	191	76	7	217	376	544	0	2,721	99	3	218	5,665
Region 6	0	70	788	0	96	60	3	32	209	52	0	178	1	0	31	1,520
Region 7	0	99	2,428	0	146	32	0	24	118	110	88	215	3	4	26	3,293
Region 8	4	248	343	0	49	91	1	71	111	138	0	258	46	0	46	1,406
Region 9	22	229	712	0	133	139	3	1	518	459	0	1,448	5	0	22	3,691
Region 10	2	149	1,701	0	221	225	1	758	406	486	0	2,040	26	31	47	6,093
Region 11	2	210	506	781	73	138	16	30	460	330	0	1,006	116	0	49	3,717
Region 12	1	336	3,330	0	492	154	8	322	2,315	1,929	4	8,105	53	95	105	17,249
Region 13	4	234	705	491	146	205	4	3	572	504	6	1,123	7	8	88	4,100
Region 14	2	150	1,101	0	222	71	1	7	245	230	8	1,381	3	63	123	3,607
Region 15	0	39	363	0	20	166	0	2	278	129	3	615	0	4	66	1,685
Region 16	0	71	374	0	38	32	0	14	147	127	9	299	3	7	53	1,174
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	35,261	0	0	35,261
TOTALS	449	2,681	17,650	1,272	2,222	1,712	93	2,309	8,136	6,604	118	23,897	35,686	288	1,029	104,146

19 Total Investigations is a summary of ALL investigations conducted by TCEQ staff, local air programs, and contractors and includes on-site, record reviews and complaint investigations.

20 DC and ER are included with IHW.

21 PWS investigations include Municipal Utility District Construction investigations.

22 Multi-Media includes investigations with one or more different parent programs and Tier II.

Table T-3B: On-site Investigations Conducted FY 2017 (9/1/2016 – 8/31/2017)

Table T-3B: On-site Investigations²³ Conducted FY 2017 (9/1/2016 - 8/31/2017)																
	AGRI	APO	AIR	EA	IHW²⁴	MSW	OC	OSSF	PST	PWS²⁵	RAD	WQ	WR	UIC²⁶	MM²⁷	TOTAL
Region 1	73	11	240	0	23	66	0	132	160	59	0	55	4	24	7	854
Region 2	14	24	79	0	33	38	0	57	139	155	0	39	0	0	48	626
Region 3	14	41	124	0	16	18	1	68	197	112	0	132	15	0	7	745
Region 4	114	84	2,069	0	135	110	0	141	1,650	559	0	493	35	0	65	5,455
Region 5	106	17	158	0	115	63	0	79	351	341	0	483	98	0	212	2,023
Region 6	0	14	716	0	36	49	0	18	183	36	0	86	0	0	27	1,165
Region 7	0	24	165	0	86	23	0	12	109	47	86	41	1	0	13	607
Region 8	4	51	57	0	32	54	0	31	96	66	0	88	6	0	21	506
Region 9	17	55	215	0	28	78	0	0	467	250	0	262	4	0	18	1,394
Region 10	1	31	716	0	87	181	0	455	341	248	0	227	25	4	45	2,361
Region 11	2	36	263	0	32	110	0	18	431	209	0	162	114	0	37	1,414
Region 12	1	23	1,296	0	135	121	0	159	2,136	1,451	4	560	9	18	97	6,010
Region 13	4	39	379	0	51	166	0	2	505	247	6	306	7	2	86	1,800
Region 14	1	27	410	0	102	41	0	7	192	152	8	173	3	13	110	1,239
Region 15	0	9	158	0	10	149	0	2	257	84	3	138	0	2	61	873
Region 16	0	30	228	0	17	31	0	6	124	61	9	62	3	1	49	621
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	35,261	0	0	35,261
TOTALS	351	516	7,273	0	938	1,298	1	1,187	7,338	4,077	116	3,307	35,585	64	903	62,954

23 Totals include all on-site investigations conducted by TCEQ staff, local air programs, and contractors. Does not include record review and other offsite investigations.

24 DC is included with IHW.

25 PWS investigations include Municipal Utility District Construction investigations.

26 UIC also includes some investigations previously counted towards IHW

27 Multi-Media includes investigations with one or more different parent programs and Tier II.

Table T-4A: Total Investigations Conducted FY 2016 (9/1/2015 – 8/31/2016)

Table T-4A: Total Investigations ²⁸ Conducted FY 2016 (9/1/2015 – 8/31/2016)																
	AGRI	APO	AIR	EA	IHW ²⁹	MSW	OC	OSSF	PST	PWS ³⁰	RAD	WQ	WR	UIC	MM ₃₁	TOTAL
Region 1	67	125	550	0	118	65	0	277	317	137	0	239	6	66	4	1,971
Region 2	22	109	450	0	80	64	8	99	255	211	0	218	2	0	43	1,561
Region 3	57	131	359	0	59	63	1	114	282	257	0	785	39	0	35	2,182
Region 4	307	243	2,619	0	273	188	79	273	1,912	626	0	3,317	30	3	50	9,920
Region 5	98	131	1,038	0	212	49	24	181	452	561	0	2,671	59	0	151	5,627
Region 6	3	82	690	0	110	90	4	59	196	66	0	162	1	0	52	1,515
Region 7	3	104	2,462	0	111	18	2	30	231	108	263	230	6	6	70	3,644
Region 8	7	445	424	0	36	61	0	100	114	96	0	180	87	0	36	1,586
Region 9	32	253	706	0	174	166	9	8	359	409	0	1,409	31	0	39	3,595
Region 10	0	134	1,776	0	213	146	0	692	496	479	0	1,944	140	38	64	6,122
Region 11	2	335	476	700	89	173	38	13	712	275	0	951	262	0	64	4,090
Region 12	2	336	3,594	0	593	154	31	351	1,611	2,292	0	8,120	38	102	97	17,321
Region 13	8	223	684	557	110	194	6	9	640	386	3	1,041	47	3	80	3,991
Region 14	4	141	745	0	169	67	1	14	469	200	0	1,403	4	64	71	3,352
Region 15	2	60	341	0	19	108	0	3	237	114	0	609	5	5	32	1,535
Region 16	0	82	402	0	46	54	0	25	121	112	4	310	0	6	60	1,222
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	33,081	0	0	33,081
TOTALS	614	2,934	17,316	1,257	2,412	1,660	203	2,248	8,404	6,329	270	23,589	33,838	293	948	102,315

28 Total Investigations is a summary of ALL investigations conducted by TCEQ staff, local air programs, and contractors and includes on-site, record reviews and complaint investigations.

29 DC and ER are included with IHW.

30 PWS investigations include Municipal Utility District Construction investigations.

31 Multi-Media includes investigations with one or more different parent programs and Tier II.

Table T-4B: On-site Investigations Conducted FY 2016 (9/1/2015 – 8/31/2016)

Table T-4B: On-site Investigations³² Conducted FY 2016 (9/1/2015 - 8/31/2016)																
	AGRI	APO	AIR	EA	IHW³³	MSW	OC	OSSF	PST	PWS³⁴	RAD	WQ	WR	UIC³⁵	MM³⁶	TOTAL
Region 1	63	29	151	0	24	58	0	126	311	98	0	56	2	20	2	940
Region 2	20	51	93	0	62	52	0	49	242	128	0	46	0	0	39	782
Region 3	32	33	117	0	26	50	0	66	248	131	0	158	21	0	19	901
Region 4	151	74	1,973	0	180	132	0	134	1,824	376	0	595	14	0	39	5,492
Region 5	93	17	144	0	116	39	0	68	444	364	0	483	46	0	137	1,951
Region 6	2	9	625	0	48	63	0	24	162	35	0	51	0	0	39	1,058
Region 7	3	18	127	0	78	15	0	14	220	54	203	34	4	2	55	827
Region 8	1	105	65	0	22	35	0	35	107	39	0	51	41	0	25	526
Region 9	20	41	228	0	21	109	0	8	324	215	0	253	6	0	22	1,247
Region 10	0	26	783	0	73	124	0	432	460	240	0	155	131	9	61	2,494
Region 11	2	73	227	0	30	139	0	8	697	179	0	182	251	0	55	1,843
Region 12	2	43	1,408	0	201	129	0	133	1,430	1,664	0	683	5	26	94	5,818
Region 13	8	20	289	0	66	170	0	7	624	230	3	289	43	1	76	1,826
Region 14	3	11	321	0	76	53	0	14	446	133	0	182	3	18	68	1,328
Region 15	2	6	169	0	14	90	0	3	222	78	0	134	0	1	32	751
Region 16	0	31	249	0	12	52	0	11	121	73	4	74	0	0	58	685
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	33,081	0	0	33,081
TOTALS	402	587	6,969	0	1,049	1,310	0	1,132	7,882	4,037	210	3,426	33,648	77	821	61,550

32 Totals include all on-site investigations conducted by TCEQ staff, local air programs, and contractors. Does not include record review and other offsite investigations.

33 DC is included with IHW.

34 PWS investigations include Municipal Utility District Construction investigations.

35 UIC also includes some investigations previously counted towards IHW

36 Multi-Media includes investigations with one or more different parent programs and Tier II.

Table T-5A: Total Investigations Conducted FY 2015 (9/1/2014 – 8/31/2015)

Table T-5A: Total Investigations³⁷ Conducted FY 2015 (9/1/2014 – 8/31/2015)																
	AGRI	APO	AIR	EA	IHW³⁸	MSW	OC	OSSF	PST	PWS³⁹	RAD	WQ	WR	UIC	MM	TOTAL
Region 1	87	28	776	0	139	75	5	277	153	157	0	288	12	45	218	2,260
Region 2	21	59	883	0	52	70	2	74	136	271	0	268	29	0	46	1,911
Region 3	20	86	723	0	28	75	7	146	108	271	0	731	139	0	118	2,452
Region 4	164	1,148	3,798	0	192	199	91	209	1,340	696	0	3,123	187	1	168	11,316
Region 5	124	25	1,336	0	93	135	16	137	102	445	0	2,806	115	0	431	5,765
Region 6	2	20	766	0	45	95	0	27	218	72	0	190	3	0	131	1,569
Region 7	4	21	3,566	0	58	115	4	26	125	104	225	310	5	0	248	4,811
Region 8	1	80	336	0	11	84	0	150	108	103	0	370	176	0	484	1,903
Region 9	6	236	778	0	33	186	10	12	188	412	0	1,414	147	0	131	3,553
Region 10	0	58	2,297	0	83	180	2	671	271	471	0	2,182	71	2	110	6,398
Region 11	0	1,510	564	722	45	141	40	32	184	292	0	1,097	18	0	137	4,782
Region 12	1	737	3,526	0	391	243	46	352	1,351	3,015	1	8,712	62	9	315	18,761
Region 13	8	453	920	506	64	240	21	21	170	486	1	1,164	55	0	307	4,416
Region 14	3	53	788	0	364	179	0	5	219	167	0	1,529	36	125	251	3,719
Region 15	2	6	480	0	35	136	2	3	74	103	1	639	1	0	89	1,571
Region 16	4	14	671	0	11	81	0	41	51	137	0	397	4	0	134	1,545
Other⁴⁰	0	0	0	0	0	0	0	0	3,086	0	0	0	0	0	0	3,086
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	29,883	0	0	29,883
TOTALS	447	4,534	22,208	1,228	1,644	2,234	246	2,183	7,884	7,202	228	25,220	30,943	182	3,318	109,701

37 Total Investigations is a summary of ALL investigations conducted by TCEQ staff, local air programs, and contractors and includes on-site, record reviews and complaint investigations.

38 DC is included with IHW.

39 PWS investigations include Municipal Utility District Construction investigations.

40 "Other" includes those investigations conducted by contracted investigators.

Table T-5B: On-site Investigations Conducted FY 2015 (9/1/2014 – 8/31/2015)

Table T-5B: On-site Investigations ⁴¹ Conducted FY 2015 (9/1/2014 - 8/31/2015)																
	AGRI	APO	AIR	EA	IHW ⁴²	MSW	OC	OSSF	PST	PWS ⁴³	RAD	WQ	WR	UIC	MM	TOTAL
Region 1	86	15	246	0	56	7	0	130	149	102	0	75	4	22	137	1,029
Region 2	13	20	91	0	48	58	0	34	127	164	0	56	26	0	26	663
Region 3	11	49	322	0	24	53	0	84	75	118	0	116	40	0	93	985
Region 4	139	114	2,704	0	142	64	1	127	1,234	410	0	465	75	1	162	5,638
Region 5	100	24	192	0	71	129	0	54	76	248	0	504	98	0	400	1,896
Region 6	2	18	672	0	36	102	0	15	192	36	0	85	0	0	107	1,265
Region 7	4	15	281	0	47	74	0	14	100	49	0	48	2	0	205	839
Region 8	1	19	62	0	4	75	0	57	95	51	0	41	47	0	235	687
Region 9	4	28	304	0	27	52	1	10	128	265	0	223	21	0	94	1,157
Region 10	0	38	854	0	66	141	0	438	222	265	0	263	59	2	91	2,439
Region 11	0	6	274	535	36	204	0	20	156	201	0	250	5	0	104	1,791
Region 12	1	50	950	0	265	92	1	167	1,223	2,038	0	811	10	9	256	5,873
Region 13	7	28	527	361	56	189	0	18	115	351	0	294	78	0	254	2,278
Region 14	5	19	290	0	115	211	0	3	200	103	0	203	1	46	211	1,407
Region 15	2	6	96	0	31	136	0	3	55	68	0	171	58	0	86	712
Region 16	4	11	326	0	11	127	0	17	40	76	0	114	19	0	99	844
Other ⁴⁴	0	0	0	0	0	0	0	0	3,086	0	0	0	0	0	0	3,086
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	29,883	0	0	29,883
TOTALS	379	460	8,191	896	1,035	1,714	3	1,191	7,273	4,545	0	3,719	30,426	80	2,560	62,472

41 Total On-site Investigations includes complaint investigations.

42 DC is included with IHW.

43 PWS investigations include Municipal Utility District Construction investigations.

44 "Other" includes those investigations conducted by contracted investigators.

Table T-6A: Total Investigations Conducted FY 2014 (9/1/2013 – 8/31/2014)

Table T-5A: Total Investigations⁴⁵ Conducted FY 2014 (9/1/2013 – 8/31/2014)																
	AGRI	APO	AIR	EA	IHW⁴⁶	MSW	OC	OSSF	PST	PWS⁴⁷	RAD	WQ	WR	UIC	MM	TOTAL
Region 1	87	52	542	0	135	48	4	316	175	200	0	319	0	43	97	2,018
Region 2	27	40	557	0	76	85	0	78	88	323	0	297	26	0	46	1,643
Region 3	4	48	401	0	24	83	0	120	69	200	0	615	171	0	31	1,766
Region 4	162	631	2886	0	160	216	16	253	1571	619	0	3,196	219	1	141	10,071
Region 5	141	11	1,318	0	79	193	8	173	92	483	0	2,469	96	1	282	5,346
Region 6	1	44	937	0	14	83	0	16	388	67	0	203	0	0	124	1,877
Region 7	5	49	2,329	0	57	51	0	25	58	141	164	357	1	0	55	3,292
Region 8	8	44	309	0	1	67	2	114	83	75	0	165	121	0	33	1,022
Region 9	10	183	1,119	0	46	219	3	19	87	432	0	1,461	235	0	62	3,876
Region 10	0	48	2,310	0	85	309	0	623	229	577	0	2,068	24	1	20	6,294
Region 11	1	888	494	747	63	211	15	32	103	284	0	1,304	21	0	134	4,297
Region 12	13	638	3,851	0	413	316	12	120	2090	1,383	0	8,456	55	9	345	17,701
Region 13	1	503	1,020	644	101	210	6	6	229	311	3	915	60	0	223	4,232
Region 14	6	25	728	0	432	160	0	4	138	241	1	1,451	0	133	139	3,458
Region 15	0	2	581	0	54	170	2	2	87	116	0	637	185	0	99	1,935
Region 16	0	10	1,215	0	11	83	0	91	40	167	3	358	2	3	96	2,079
Other⁴⁸	0	0	0	0	0	0	0	0	1908	0	0	0	0	0	0	1,908
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	30,191	0	0	30,191
TOTALS	466	3,216	20,597	1,391	1,751	2,504	68	1,992	7,435	5,619	171	24,271	31,407	191	1,927	103,006

45 Total Investigations is a summary of ALL investigations conducted by TCEQ staff and includes on-site, record reviews and complaint investigations.

46 DC is included with IHW.

47 PWS investigations include Municipal Utility District Construction investigations.

48 "Other" includes those investigations conducted by contracted investigators.

Table T-6B: On-site Investigations Conducted FY 2014 (9/1/2013 – 8/31/2014)

Table T-6B: On-site Investigations⁴⁹ Conducted FY 2014 (9/1/2013 - 8/31/2014)																
	AGRI	APO	AIR	EA	IHW⁵⁰	MSW	OC	OSSF	PST	PWS⁵¹	RAD	WQ	WR	UIC	MM	TOTAL
Region 1	71	37	206	0	60	44	0	164	171	137	0	65	0	21	90	1,066
Region 2	20	37	113	0	70	72	0	43	62	185	0	58	26	0	36	722
Region 3	4	34	149	0	22	74	0	62	41	103	0	94	151	0	29	763
Region 4	141	70	2,005	0	119	130	0	166	1,419	333	0	535	176	1	137	5,232
Region 5	114	11	225	0	63	157	0	85	36	304	0	422	92	1	275	1,785
Region 6	1	33	707	0	9	62	0	11	370	42	0	92	0	0	110	1,437
Region 7	4	28	383	0	50	41	0	8	42	83	0	49	1	0	49	738
Region 8	4	2	155	0	0	41	0	42	40	40	0	24	105	0	15	468
Region 9	7	35	504	0	31	141	0	16	57	255	0	253	227	0	47	1,573
Region 10	0	37	1,002	0	71	258	0	419	188	347	0	258	17	1	15	2,613
Region 11	1	25	244	539	46	141	0	21	77	192	0	412	21	0	123	1,842
Region 12	10	87	1,449	0	303	235	0	110	1,897	713	0	927	53	9	331	6,124
Region 13	1	39	701	423	86	179	0	6	153	175	0	225	60	0	212	2,260
Region 14	5	11	348	0	149	129	0	4	119	127	0	210	0	49	139	1,290
Region 15	0	2	101	0	48	147	0	1	75	71	0	188	185	0	92	910
Region 16	0	10	608	0	10	77	0	43	35	96	0	100	2	3	88	1,072
Other⁵²	0	0	0	0	0	0	0	0	1,908	0	0	0	0	0	0	1,908
Water-master Programs	0	0	0	0	0	0	0	0	0	0	0	0	29,973	0	0	29,973
TOTALS	383	498	8,900	962	1,137	1,928	0	1,201	6,690	3,203	0	3,912	31,089	85	1,788	61,776

49 Total On-site Investigations includes complaint investigations.

50 DC is included with IHW.

51 PWS investigations include Municipal Utility District Construction investigations.

52 "Other" includes those investigations conducted by contracted investigators.

Table T-7: Complaint Investigations, FY 2019 (9/1/2018 – 8/31/2019)

Table T-7: Complaint Investigations, FY 2019 (9/1/2018 – 8/31/2019)															
	AGRI	APO	AIR	EA	ER	IHW ⁵³	MSW	OC	OSSF	PST	PWS	WQ	WR	MM ⁵⁴	TOTAL
Region 1	6	0	20	0	0	13	20	1	3	2	3	2	0	1	71
Region 2	2	0	31	0	0	5	24	0	2	0	10	8	0	6	88
Region 3	7	0	26	0	0	4	21	0	11	2	59	71	8	4	213
Region 4	22	5	346	0	0	11	42	6	19	21	237	185	14	8	916
Region 5	5	2	102	0	0	0	2	5	1	1	68	168	5	5	364
Region 6	0	0	36	0	0	0	14	1	1	0	2	3	0	1	58
Region 7	0	0	93	0	1	32	19	0	3	1	19	9	0	7	184
Region 8	0	0	15	0	0	5	17	0	2	0	5	19	6	8	77
Region 9	4	2	86	0	0	7	36	0	0	3	82	68	22	6	316
Region 10	0	0	162	0	0	5	76	0	79	3	100	52	2	7	486
Region 11	1	6	100	37	0	3	33	1	5	3	44	57	4	15	309
Region 12	6	21	224	0	1	9	60	7	34	18	234	193	6	8	821
Region 13	5	3	214	14	1	7	53	1	2	11	57	84	26	19	497
Region 14	0	4	178	0	1	2	22	0	0	4	80	57	2	11	361
Region 15	0	0	29	0	1	0	27	0	0	9	21	11	0	9	107
Region 16	1	2	20	0	0	0	18	0	2	2	4	13	2	3	67
Water-Master Programs								0					47		47
TOTALS	59	45	1,682	51	5	103	484	22	164	80	1,025	1,000	97	118	4,982

⁵³ Dry Cleaner is included with IHW.

⁵⁴ The "Multi-Media" category includes any complaint associated with more than one media. Those complaints are not included in individual media counts.

Table T-8: Complaint Investigations, FY 2018 (9/1/2017 – 8/31/2018)

Table T-8: Complaint Investigations, FY 2018 (9/1/2017 – 8/31/2018)															
	AGRI	APO	AIR	EA	ER	IHW ⁵⁵	MSW	OC	OSSF	PST	PWS	WQ	WR	MM ⁵⁶	TOTAL
Region 1	7	1	23	0	0	9	21	0	3	1	3	6	0	0	74
Region 2	1	2	41	0	0	5	29	0	2	1	13	8	0	4	106
Region 3	2	0	32	0	0	5	13	0	6	7	44	30	5	7	151
Region 4	12	9	363	0	0	15	26	8	23	45	250	143	7	10	911
Region 5	5	6	99	0	0	1	5	2	8	1	76	105	8	8	324
Region 6	0	0	65	0	0	3	24	0	1	0	2	9	0	3	107
Region 7	0	1	110	0	0	34	10	0	0	0	11	13	2	9	190
Region 8	1	1	29	0	0	1	12	0	10	1	3	8	2	8	76
Region 9	7	1	100	0	2	2	23	0	0	6	81	65	3	3	293
Region 10	0	1	105	0	0	6	61	0	106	5	81	53	2	9	429
Region 11	0	2	131	26	0	5	27	0	1	2	27	42	7	5	275
Region 12	2	20	189	0	1	8	71	0	1	11	234	159	7	8	711
Region 13	2	4	181	10	0	8	43	1	5	9	48	67	0	17	395
Region 14	4	0	105	0	1	2	13	0	0	3	46	29	0	18	221
Region 15	0	0	36	0	0	2	32	0	1	3	13	23	0	11	121
Region 16	0	3	29	0	0	1	13	0	0	1	14	25	0	3	89
Water-Master Programs													72		72
TOTALS	43	51	1,638	36	4	107	423	11	167	96	946	785	43	123	4,545

⁵⁵ Dry Cleaner is included with IHW.

⁵⁶ The "Multi-Media" category includes any complaint associated with more than one media. Those complaints are not included in individual media counts.

Table T-9: Complaint Investigations, FY 2017 (9/1/2016 – 8/31/2017)

Table T-9: Complaint Investigations, FY 2017 (9/1/2016 – 8/31/2017)															
	AGRI	APO	AIR	EA	ER	IHW ⁵⁷	MSW	OC	OSSF	PST	PWS	WQ	WR	MM ⁵⁸	TOTAL
Region 1	3	1	11	0	0	8	18	2	0	0	3	6	2	0	54
Region 2	5	0	23	0	0	0	12	3	4	4	17	13	0	7	88
Region 3	0	0	34	0	0	3	6	3	2	2	37	29	2	0	118
Region 4	9	6	551	0	0	20	34	16	29	38	230	166	7	4	1,110
Region 5	7	4	77	0	0	1	7	6	7	2	108	74	9	17	319
Region 6	0	0	75	0	0	0	28	1	4	1	4	12	0	1	126
Region 7	0	0	112	0	1	26	16	0	2	3	6	21	0	4	191
Region 8	1	0	22	0	0	0	14	0	5	7	12	11	6	7	85
Region 9	2	2	96	0	1	5	36	1	0	5	82	70	18	5	323
Region 10	0	0	100	0	3	13	87	1	86	13	73	55	0	8	439
Region 11	1	1	130	24	3	2	45	8	1	4	31	40	3	9	302
Region 12	1	1	243	0	1	24	65	3	17	50	244	173	12	1	835
Region 13	3	5	164	10	1	16	65	2	0	18	54	79	17	19	453
Region 14	0	0	112	0	3	15	22	1	0	5	36	27	6	28	255
Region 15	0	2	48	0	0	3	38	0	0	4	21	29	0	12	157
Region 16	0	0	23	0	0	2	13	0	0	4	10	13	1	3	69
Water-Master Programs													39		39
TOTALS	32	22	1,821	34	13	138	506	47	157	160	968	818	83	125	4,963

⁵⁷ Dry Cleaner is included with IHW.

⁵⁸ Multi-Media includes any complaint associated with more than one media and Tier II. Those complaints are not included in individual media counts.

Table T-10: Complaint Investigations, FY 2016 (9/1/2015 – 8/31/2016)

Table T-10: Complaint Investigations, FY 2016 (9/1/2015 – 8/31/2016)															
	AGRI	APO	AIR	EA	ER	IHW ⁵⁹	MSW	OC	OSSF	PST	PWS	WQ	WR	MM ⁶⁰	TOTAL
Region 1	4	0	14	0	0	3	20	0	2	1	7	3	0	1	55
Region 2	5	1	26	0	0	6	14	6	2	0	20	15	0	6	101
Region 3	5	1	26	0	0	8	21	1	10	6	56	45	11	6	196
Region 4	28	1	532	0	0	22	47	46	24	51	125	170	6	4	1,056
Region 5	7	0	69	0	0	3	5	12	4	1	134	113	8	20	376
Region 6	2	0	51	0	0	0	37	3	5	1	4	6	1	8	118
Region 7	0	3	50	0	1	26	8	1	0	2	5	29	1	19	145
Region 8	1	0	17	0	0	1	16	0	2	0	6	18	28	7	96
Region 9	1	1	91	0	1	6	55	5	0	7	61	68	14	5	315
Region 10	0	1	99	0	1	8	45	0	95	11	85	54	0	3	402
Region 11	0	0	123	15	2	2	53	19	2	3	19	40	5	11	294
Region 12	2	0	213	0	2	29	64	13	19	43	213	102	7	2	709
Region 13	5	0	131	7	1	20	69	3	4	20	44	93	58	19	474
Region 14	1	0	126	0	0	7	26	1	1	3	32	58	6	5	266
Region 15	0	1	39	0	1	2	23	0	0	0	21	23	0	9	119
Region 16	0	0	24	0	0	5	23	0	0	2	16	25	2	13	110
Water-Master Programs													41		41
TOTALS	61	9	1,631	22	9	148	526	110	170	151	848	862	147	138	4,873⁶¹

⁵⁹ Beginning in FY 2016, complaint investigations for the Dry Cleaner (DC) program is included in IHW (Note: There were no complaints for DC in FY2016).

⁶⁰ New category "Multi-Media" includes any complaint associated with more than one media and Tier II. Those complaints are not included in individual media counts.

⁶¹ The number of complaints investigated and approved in FY 2016 is 4,832. However, since some complaints are investigated by multiple programs, the total number of complaint investigations is greater.

Table T-11: Complaint Investigations, FY 2015 (9/1/2014 – 8/31/2015)

Table T-11: Complaint Investigations, FY 2015 (9/1/2014 – 8/31/2015)														
	AGRI	APO	AIR	DC	EA	ER	IHW	MSW	OSSF	PST	PWS	WQ	WR	TOTAL
Region 1	6	0	24	0	0	0	8	14	2	1	0	1	0	56
Region 2	1	1	17	0	0	0	6	9	5	3	17	16	0	75
Region 3	2	3	36	0	0	0	7	20	9	4	25	28	11	145
Region 4	19	12	377	0	0	0	29	39	26	52	122	112	17	805
Region 5	12	6	51	0	0	0	15	24	4	1	57	106	15	291
Region 6	0	1	63	0	0	0	1	26	3	2	4	11	0	111
Region 7	1	0	68	0	0	1	26	36	4	2	5	38	1	182
Region 8	0	0	23	0	0	0	2	14	4	1	6	51	3	104
Region 9	2	1	151	0	0	3	3	56	0	6	78	55	8	363
Region 10	0	1	92	0	0	0	8	17	105	10	54	39	3	329
Region 11	0	1	126	0	26	1	13	48	2	6	15	54	2	294
Region 12	0	1	162	0	0	0	24	87	4	36	241	65	5	625
Region 13	0	4	93	0	12	1	17	56	6	22	15	87	33	346
Region 14	1	2	88	0	0	0	11	20	0	6	25	50	0	203
Region 15	0	1	18	0	0	0	2	29	1	3	14	26	0	94
Region 16	0	1	67	0	0	0	3	29	1	2	10	32	0	145
Water-Master Programs	0	0	0	0	0	0	0	0	0	0	0	0	40	40
No Program Assigned⁶²														4
TOTALS	44	35	1,456	0	38	6	175	524	176	157	688	771	138	4,212⁶³

62 "No Program Assigned" includes complaint investigations that cannot be categorized in the listed program areas, or complaints occurring at the end of FY 2015 that have not yet been assigned to a program area.

63 The number of complaints investigated and approved in FY 2015 is 3,962. However, since some complaints are investigated by multiple programs, the total number of complaint investigations is greater.

Table T-12: Complaint Investigations, FY 2014 (9/1/2013 – 8/31/2014)

Table T-12: Complaint Investigations, FY 2014 (9/1/2013 – 8/31/2014)														
	AGRI	APO	AIR	DC	EA	ER	IHW	MSW	OSSF	PST	PWS	WQ	WR	TOTAL
Region 1	8	0	22	0	0	0	11	5	5	0	4	10	0	65
Region 2	7	2	30	0	0	0	9	16	4	3	29	14	0	114
Region 3	2	1	33	0	0	0	6	26	5	6	31	31	10	151
Region 4	11	4	485	0	0	0	12	38	24	63	98	133	18	886
Region 5	12	2	105	0	0	1	16	35	9	6	74	83	13	356
Region 6	0	0	84	0	0	0	2	22	3	1	6	19	0	137
Region 7	0	4	71	0	0	6	20	8	0	9	18	16	0	152
Region 8	0	0	24	0	0	1	0	18	10	0	8	15	5	81
Region 9	6	1	165	0	0	7	7	28	0	4	77	62	13	370
Region 10	0	0	118	0	0	1	6	37	106	9	60	34	2	373
Region 11	1	0	65	0	9	0	7	35	0	8	19	45	3	192
Region 12	5	11	190	0	0	1	20	78	2	75	158	111	4	655
Region 13	0	9	104	0	6	2	26	52	0	18	15	66	23	321
Region 14	4	0	101	0	0	1	5	26	0	8	22	34	0	201
Region 15	0	0	20	0	0	0	1	17	0	1	13	29	1	82
Region 16	0	0	20	0	0	0	1	25	2	2	23	23	0	96
Water-Master Programs	0	0	0	0	0	0	0	0	0	0	0	0	38	38
No Program Assigned⁶⁴														3
TOTALS	56	34	1,637	0	15	20	149	466	170	213	655	725	130	4,273⁶⁵

64 "No Program Assigned" includes complaint investigations that cannot be categorized in the listed program areas, or complaints occurring at the end of FY 2014 that have not yet been assigned to a program area.

65 The number of complaints investigated and approved in FY 2014 is 4,034. However, since some complaints are investigated by multiple programs, the total number of complaint investigations is greater.

Table T-13: Notices of Violation Issued (Mailed) FY 2019 (9/1/2018 – 8/31/2019) from Regional Offices

Table T-13: Notices of Violation Issued (Mailed) FY 2019 (9/1/2018 - 8/31/2019) from Regional Offices														
	AGRI	APO	AIR	DC	EA	IHW ⁶⁶	MSW	OSSF	PST	PWS	WQ	WR	MM ⁶⁷	TOTAL
Region 01	8	1	45	0	0	5	16	0	15	35	18	0	2	145
Region 02	1	0	15	0	0	8	16	1	30	48	13	0	10	142
Region 03	6	8	20	0	0	5	15	0	33	101	131	0	4	323
Region 04	33	15	168	0	0	66	34	14	183	155	216	3	14	901
Region 05	7	5	72	0	0	5	7	4	31	201	121	0	18	470
Region 06	0	3	30	0	0	9	10	1	14	24	39	0	10	137
Region 07	0	4	103	0	0	15	3	1	13	11	11	0	1	160
Region 08	2	6	28	0	0	7	20	3	16	21	30	3	7	139
Region 09	1	14	38	0	0	10	19	0	71	104	68	0	8	333
Region 10	0	7	119	0	0	18	70	71	55	175	128	1	11	655
Region 11	0	12	17	0	20	7	4	1	44	58	64	0	17	241
Region 12	0	35	305	0	0	64	12	19	195	434	303	0	33	1,383
Region 13	3	15	69	0	7	8	24	0	45	68	92	0	24	336
Region 14	2	14	136	0	0	10	26	0	34	76	78	0	10	380
Region 15	1	2	20	0	0	3	23	0	62	36	50	0	7	204
Region 16	0	5	24	0	0	5	15	0	39	30	19	0	2	143
TOTALS	64	146	1,209	0	27	245	314	115	880	1,577	1,381	7	184	6,078

66 RAD, UIC, and ER are included in IHW

67 Multi-Media includes NOV's with one or more different programs and Tier II.

Table T-14: Notices of Violation Issued (Mailed) FY 2018 (9/1/2017 – 8/31/2018) from Regional Offices

Table T-14: Notices of Violation Issued (Mailed) FY 2018 (9/1/2017 - 8/31/2018) from Regional Offices														
	AGRI	APO	AIR	DC	EA	IHW ⁶⁸	MSW	OSSF	PST	PWS	WQ	WR	MM ⁶⁹	TOTAL
Region 01	7	0	28	0	0	5	2	1	25	21	20	0	1	110
Region 02	6	2	16	0	0	2	22	6	10	46	27	0	5	142
Region 03	10	8	30	0	0	9	13	0	11	78	87	0	4	250
Region 04	45	18	188	0	0	26	22	21	217	203	155	0	16	909
Region 05	15	13	61	0	0	1	4	6	22	181	105	3	10	410
Region 06	0	1	34	0	0	10	17	0	25	22	40	0	13	162
Region 07	0	12	64	0	0	4	2	2	5	5	14	0	3	111
Region 08	5	5	38	0	0	13	18	6	5	30	28	0	8	155
Region 09	4	20	31	0	0	12	6	0	67	104	57	0	2	302
Region 10	1	18	98	0	0	12	49	91	61	168	124	1	7	629
Region 11	0	13	23	0	0	7	8	0	39	54	59	0	5	207
Region 12	1	35	311	0	0	29	6	0	82	195	223	0	14	866
Region 13	5	16	46	0	0	6	24	0	47	89	62	0	18	306
Region 14	0	13	71	0	0	6	8	0	12	55	51	0	6	222
Region 15	0	3	9	0	0	1	30	0	52	37	43	0	9	184
Region 16	0	8	27	0	0	1	6	0	20	36	28	0	7	131
TOTALS	99	185	1,075	0	0	144	237	133	700	1,324	1,123	4	128	5,096

68 RAD, UIC, and ER are included in IHW

69 Multi-Media includes NOVs with one or more different programs and Tier II.

Table T-15: Notices of Violation Issued (Mailed) FY 2017 (9/1/2016 – 8/31/2017) from Regional Offices

Table T-15: Notices of Violation Issued (Mailed) FY 2017 (9/1/2016 - 8/31/2017) from Regional Offices														
	AGRI	APO	AIR	DC	EA	IHW ⁷⁰	MSW	OSSF	PST	PWS	WQ	WR	MM ⁷¹	TOTAL
Region 01	13	0	34	0	0	4	3	1	1	20	25	0	1	102
Region 02	6	2	10	0	0	3	8	3	22	58	15	0	12	139
Region 03	5	6	37	0	0	5	0	0	25	76	65	0	0	219
Region 04	25	23	263	0	0	34	18	12	205	211	169	1	7	968
Region 05	14	8	61	0	0	5	6	38	16	193	113	0	16	470
Region 06	0	1	40	0	0	6	20	3	27	18	36	0	6	157
Region 07	0	5	90	0	0	9	7	0	5	11	11	0	1	139
Region 08	2	9	29	0	0	10	27	5	11	24	42	2	7	168
Region 09	5	21	37	0	0	13	10	0	46	108	73	0	3	316
Region 10	1	15	123	0	0	21	63	93	102	165	129	0	9	721
Region 11	1	14	27	0	0	4	10	0	46	58	72	0	7	239
Region 12	0	15	422	0	0	48	15	12	183	187	257	0	19	1,158
Region 13	0	9	65	0	0	6	31	0	18	130	65	0	11	335
Region 14	0	3	103	0	0	23	10	0	60	50	64	0	22	335
Region 15	0	2	15	0	0	1	23	0	39	37	37	0	15	169
Region 16	0	10	55	0	0	3	7	0	29	31	20	0	10	165
TOTALS	72	143	1,411	0	0	195	258	167	835	1,377	1,193	3	146	5,800

70 RAD, UIC, and ER are included in IHW

71 Multi-Media includes NOV's with one or more different programs and Tier II.

Table T-16: Notices of Violation Issued (Mailed) FY 2016 (9/1/2015 – 8/31/2016) from Regional Offices

Table T-16: Notices of Violation Issued (Mailed) FY 2016 (9/1/2015 - 8/31/2016) from Regional Offices														
	AGRI	APO	AIR	DC	EA	IHW	MSW	OSSF	PST	PWS	WQ	WR	MM	TOTAL
Region 01	5	2	36	0	0	4	7	2	14	39	21	0	1	131
Region 02	9	1	14	0	0	10	10	1	50	51	15	0	9	170
Region 03	17	3	23	0	0	6	3	0	10	69	84	0	6	221
Region 04	37	30	173	0	0	47	25	11	177	126	182	0	6	814
Region 05	10	9	59	0	0	1	2	23	13	167	90	1	11	386
Region 06	0	0	23	0	0	11	25	1	34	17	21	0	12	144
Region 07	0	3	59	0	0	11	3	0	2	0	6	0	8	92
Region 08	0	9	29	0	0	5	13	1	11	26	30	11	6	141
Region 09	2	14	32	0	0	17	31	0	25	93	86	0	4	304
Region 10	0	7	109	0	0	13	28	90	100	153	98	0	9	607
Region 11	0	7	20	0	0	15	35	0	27	65	76	0	11	256
Region 12	0	15	455	0	0	63	19	6	327	322	208	0	16	1,431
Region 13	3	3	50	0	0	11	30	0	8	134	84	0	15	338
Region 14	0	4	104	0	0	10	17	0	26	61	71	1	10	304
Region 15	0	1	19	0	0	9	12	0	35	37	34	0	7	154
Region 16	0	12	27	0	0	0	13	0	22	26	11	0	11	122
TOTALS	83	120	1,232	0	0	233	273	135	881	1,386	1,117	13	142	5,615

Table T-17: Notices of Violation Issued (Mailed) FY 2015 (9/1/2014 – 8/31/2015) from Regional Offices

Table T-17: Notices of Violation Issued (Mailed) FY 2015 (9/1/2014 - 8/31/2015) from Regional Offices														
	AGRI	APO	AIR	DC	EA	IHW	MSW	OSSF	PST	PWS	WQ	WR	MM	TOTAL
Region 01	6	6	33	0	0	4	2	2	0	36	39	0	2	130
Region 02	3	6	11	0	0	5	8	1	26	48	39	0	4	151
Region 03	12	5	40	0	0	2	3	0	2	70	75	0	12	221
Region 04	11	19	178	0	0	38	33	16	99	130	146	3	20	693
Region 05	4	12	50	0	0	1	5	6	1	131	84	1	14	309
Region 06	2	1	33	0	0	11	26	2	52	15	17	0	16	175
Region 07	1	3	62	0	0	7	4	1	1	4	10	0	4	97
Region 08	0	4	17	0	0	5	17	9	6	21	24	2	11	116
Region 09	0	5	48	0	0	17	30	0	39	96	69	0	12	316
Region 10	0	21	118	0	0	19	25	94	55	104	155	0	9	600
Region 11	0	1	26	0	17	8	13	0	16	65	83	1	23	253
Region 12	0	24	416	0	0	61	16	4	242	512	330	0	46	1,651
Region 13	2	6	64	0	5	8	23	2	5	198	82	1	27	423
Region 14	1	15	82	0	0	12	6	0	26	50	80	0	29	301
Region 15	0	1	15	0	0	10	21	2	17	29	44	0	14	153
Region 16	0	3	23	0	0	1	10	1	9	34	30	0	5	116
TOTALS	42	132	1,216	0	22	209	242	140	596	1,543	1,307	8	248	5,705

Table T-18: Notices of Violation Issued (Mailed) FY 2014 (9/1/2013 – 8/31/2014) from Regional Offices

Table T-18: Notices of Violation Issued (Mailed) FY 2014 (9/1/2013 - 8/31/2014) from Regional Offices														
	AGRI	APO	AIR	DC	EA	IHW	MSW	OSSF	PST	PWS	WQ	WR	MM	TOTAL
Region 01	14	7	52	0	0	3	7	5	7	46	33	0	2	176
Region 02	8	4	12	0	0	2	15	1	8	53	20	0	3	126
Region 03	6	7	49	0	0	7	5	0	0	56	54	38	3	225
Region 04	31	19	127	0	0	18	27	23	198	149	190	29	18	829
Region 05	18	5	62	0	0	0	5	6	0	170	64	0	20	350
Region 06	0	10	49	0	0	9	17	1	70	17	29	0	19	221
Region 07	0	2	51	0	0	8	1	0	2	5	14	0	3	86
Region 08	1	1	56	0	0	7	17	11	31	17	13	19	10	183
Region 09	1	13	47	0	0	7	24	0	9	84	79	1	9	274
Region 10	0	18	116	0	0	22	56	107	47	157	141	1	11	676
Region 11	0	7	19	0	11	7	16	0	10	69	114	0	17	270
Region 12	0	40	443	0	0	59	23	0	384	209	347	1	77	1,583
Region 13	0	14	54	0	10	6	10	1	4	89	51	2	22	263
Region 14	1	4	28	0	0	8	20	0	6	58	65	1	28	219
Region 15	0	1	11	0	0	6	25	0	25	36	43	1	12	160
Region 16	0	1	73	0	0	2	9	1	7	34	23	0	15	165
TOTALS	80	153	1249	0	21	171	277	156	808	1249	1280	93	269	5,806

Table T-19: Notices of Violation Issued (Mailed) FY 2019 (9/1/2018 – 8/31/2019) from Central Office

Table T-19: Notices of Violation Issued (Mailed) FY 2019 (9/1/2018 - 8/31/2019) from Central Office													
	AIR	DC	EAPP	IHW	MSW	OC	PST	PWS	RAD	WR	WQ	MM	TOTAL
Region 1	0	1	0	0	0	0	0	303	0	0	1	0	305
Region 2	1	7	0	1	2	0	0	821	0	0	0	0	832
Region 3	0	0	0	0	0	0	0	323	0	0	0	0	323
Region 4	2	36	0	0	0	5	0	1,155	0	0	4	0	1,202
Region 5	0	2	0	0	0	4	0	637	0	0	3	0	646
Region 6	0	0	0	0	0	0	0	222	0	0	0	0	222
Region 7	1	1	0	0	1	0	0	509	0	0	0	0	512
Region 8	0	0	0	0	0	0	0	207	0	0	0	0	207
Region 9	0	7	0	0	0	0	0	538	0	0	0	0	545
Region 10	1	0	0	0	0	0	0	887	0	0	1	0	889
Region 11	0	4	0	0	0	0	0	647	0	0	0	0	651
Region 12	8	48	0	2	1	4	0	2,278	0	0	5	1	2,347
Region 13	0	4	0	0	0	1	0	1,128	0	0	0	0	1,133
Region 14	8	1	0	0	0	0	0	577	0	0	0	0	586
Region 15	0	5	0	0	0	0	0	236	0	0	0	0	241
Region 16	0	0	0	0	0	0	0	248	0	0	0	0	248
TOTALS	21	116	0	3	4	14	0	10,716	0	0	14	1	10,889

Table T-20: Notices of Violation Issued (Mailed) FY 2018 (9/1/2017 – 8/31/2018) from Central Office

Table T-20: Notices of Violation Issued (Mailed) FY 2018 (9/1/2017 - 8/31/2018) from Central Office													
	AIR	DC	EAPP	IHW	MSW	OC	PST	PWS	RAD	WR	WQ	MM	TOTAL
Region 1	0	0	0	0	0	0	0	357	0	0	0	0	357
Region 2	0	0	0	0	0	0	0	881	0	0	0	0	881
Region 3	0	0	0	0	0	0	0	459	0	0	0	0	459
Region 4	1	0	0	0	0	6	0	1,160	0	0	0	0	1,167
Region 5	2	0	0	0	0	2	0	614	0	0	0	0	618
Region 6	0	0	0	0	0	0	0	181	0	0	0	0	181
Region 7	0	0	0	0	0	0	0	484	0	0	0	0	484
Region 8	0	0	0	0	0	0	0	216	0	0	0	0	216
Region 9	0	0	0	0	0	0	0	607	0	0	0	0	607
Region 10	1	0	0	0	0	0	0	910	0	0	1	0	912
Region 11	0	0	0	0	0	0	0	638	0	0	0	0	638
Region 12	8	0	0	0	0	1	0	2,380	0	0	0	0	2,389
Region 13	3	0	0	0	0	1	0	1,036	0	0	0	0	1,040
Region 14	0	0	0	0	0	0	0	562	0	0	0	0	562
Region 15	0	0	0	0	0	0	0	193	0	0	1	0	194
Region 16	0	0	0	0	0	0	0	331	0	0	0	0	331
TOTALS	15	0	0	0	0	10	0	11,009	0	0	2	0	11,036⁷²

⁷² Most of the Central Office Notices of Violation resulted from the review of self-reported data from PWS systems (11,009)

Table T-21: Notices of Violation Issued (Mailed) FY 2017 (9/1/2016 – 8/31/2017) from Central Office

Table T-21: Notices of Violation Issued (Mailed) FY 2017 (9/1/2016 - 8/31/2017) from Central Office													
	AIR	DC	EAPP	IHW	MSW	OC	PST	PWS	RAD	WR	WQ	MM	TOTAL
Region 1	0	0	0	0	0	0	0	394	0	0	0	0	394
Region 2	0	0	0	0	0	1	0	949	0	0	0	0	950
Region 3	0	0	0	0	0	1	0	494	0	0	0	0	495
Region 4	2	0	0	0	0	13	0	1,357	0	0	0	0	1,372
Region 5	0	0	0	0	0	4	0	698	0	0	1	0	703
Region 6	0	0	0	0	0	0	0	186	0	0	1	0	187
Region 7	0	0	0	0	0	0	0	480	0	0	0	0	480
Region 8	1	0	0	0	0	0	0	258	0	0	0	0	259
Region 9	1	0	0	0	0	1	0	699	0	0	0	0	701
Region 10	2	0	0	0	0	0	0	1,067	0	0	0	0	1,069
Region 11	1	0	0	0	0	6	0	606	0	0	0	0	613
Region 12	6	0	0	1	0	3	0	2,322	0	0	0	0	2,332
Region 13	0	0	0	0	0	0	0	830	0	0	0	0	830
Region 14	1	0	0	0	0	1	0	522	0	0	0	0	524
Region 15	0	0	0	0	0	0	0	250	0	0	1	0	251
Region 16	0	0	0	0	0	0	0	313	0	0	1	0	314
TOTALS	14	0	0	1	0	30	0	11,425	0	0	4	0	11,474⁷³

⁷³ Most of the Central Office Notices of Violation resulted from the review of self-reported data from PWS systems (11,425)

Table T-22: Notices of Violation Issued (Mailed) FY 2016 (9/1/2015 – 8/31/2016) from Central Office

Table T-22: Notices of Violation Issued (Mailed) FY 2016 (9/1/2015 - 8/31/2016) from Central Office												
	AIR	DC	IHW	MSW	OC	PST	PWS	RAD	WQ	WR	MM	TOTAL
Region 1	4	0	0	0	0	0	300	0	0	1	0	305
Region 2	0	0	0	0	2	0	894	0	0	1	0	897
Region 3	0	0	0	0	0	0	472	0	1	5	0	478
Region 4	6	0	7	1	27	0	1,283	0	0	4	1	1,329
Region 5	2	0	0	0	9	0	844	0	0	6	0	861
Region 6	1	0	0	0	0	0	219	0	0	0	0	220
Region 7	0	0	0	0	1	0	627	0	0	0	0	628
Region 8	0	0	0	0	0	0	294	0	0	8	0	302
Region 9	2	0	0	0	3	0	706	0	0	11	0	722
Region 10	5	0	0	0	0	0	913	0	1	5	0	924
Region 11	1	0	0	0	15	0	849	0	0	4	0	869
Region 12	7	0	0	0	9	0	2,604	0	2	6	0	2,628
Region 13	1	0	0	0	2	0	896	0	0	0	0	899
Region 14	2	0	0	0	0	0	595	0	3	0	0	600
Region 15	0	0	0	0	0	0	272	0	0	0	0	272
Region 16	1	0	0	0	1	0	362	0	0	0	0	364
TOTALS	32	0	7	1	69	0	12,130	0	7	51	1	12,298⁷⁴

74 Most of the Central Office Notices of Violation resulted from the review of self-reported data from PWS systems (12,130)

Table T-23: Notices of Violation Issued (Mailed) FY 2015 (9/1/2014 – 8/31/2015) from Central Office

Table T-23: Notices of Violation Issued (Mailed) FY 2015 (9/1/2014 - 8/31/2015) from Central Office												
	AIR	DC	IHW	MSW	OC	PST	PWS	RAD	WQ	WR	MM	TOTAL
Region 1	0	0	0	0	0	0	325	0	0	5	0	330
Region 2	0	0	0	0	1	0	1,025	0	0	2	0	1,028
Region 3	1	0	0	0	2	0	635	0	1	39	0	678
Region 4	1	0	0	0	22	0	1,234	0	1	30	0	1,288
Region 5	0	0	0	0	4	0	841	0	3	12	0	860
Region 6	0	0	0	0	0	0	253	0	1	2	0	256
Region 7	9	0	0	0	2	1	646	0	1	1	0	660
Region 8	0	0	0	0	0	0	248	0	0	14	0	262
Region 9	0	0	0	0	2	0	742	0	2	34	0	780
Region 10	0	0	0	0	1	0	1,028	0	2	10	0	1,041
Region 11	0	0	0	0	16	0	678	0	1	8	0	703
Region 12	0	0	0	0	12	0	3,268	0	7	7	0	3,294
Region 13	0	0	0	0	2	0	926	0	0	5	0	933
Region 14	0	0	0	0	0	0	519	0	4	0	1	524
Region 15	0	0	0	0	1	0	185	0	2	0	0	188
Region 16	0	0	0	0	0	0	362	0	1	0	0	363
TOTALS	11	0	0	0	65	1	12,915	0	26	169	1	13,188⁷⁵

75 Most of the Central Office Notices of Violation resulted from the review of self-reported data from PWS systems (12,911)

Table T-24: Notices of Violation Issued (Mailed) FY 2014 (9/1/2013 – 8/31/2014) from Central Office

Table T-24: Notices of Violation Issued (Mailed) FY 2014 (9/1/2013 - 8/31/2014) from Central Office												
	AIR	DC	IHW	MSW	OC	PST	PWS	RAD	WQ	WR	MM	TOTAL
Region 1	0	0	0	0	1	0	304	0	0	0	0	305
Region 2	0	0	0	0	0	0	749	0	0	0	0	749
Region 3	0	0	0	0	0	0	364	0	3	6	0	373
Region 4	2	0	0	0	6	0	1,085	0	4	6	0	1,103
Region 5	2	0	0	0	3	0	538	0	9	4	0	556
Region 6	1	0	0	0	0	0	246	0	1	0	0	248
Region 7	0	0	0	0	0	0	492	0	0	0	0	492
Region 8	0	0	0	0	0	0	206	0	2	0	0	208
Region 9	1	0	0	0	1	0	555	0	3	1	0	561
Region 10	2	0	0	0	0	0	605	0	5	6	0	618
Region 11	0	0	0	0	2	0	619	0	1	0	0	622
Region 12	9	0	0	0	5	0	2,360	0	15	1	0	2,390
Region 13	0	0	0	0	1	0	970	1	3	0	0	975
Region 14	2	0	0	0	0	0	354	0	4	0	0	360
Region 15	0	0	0	0	0	0	114	0	4	0	0	118
Region 16	0	0	0	0	0	0	379	0	2	0	0	381
TOTALS	19	0	0	0	19	0	9,940	1	56	24	0	10,059⁷⁶

76 Most of the Central Office Notices of Violation resulted from the review of self-reported data from PWS systems (9,940)

Table T-26: Summary of Administrative Orders Issued FY 2018

PROGRAMS	TABLE T-26: SUMMARY OF ADMINISTRATIVE ORDERS ISSUED FY 2018				
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY	SEP CONDITIONAL OFFSET
AGRICULTURE	8	\$28,010	\$4,867	\$21,018	\$2,125
AIR	177	\$3,068,726	\$485,261	\$1,504,254	\$1,079,211
DRY CLEANERS	2	\$4,889	\$0	\$4,889	\$0
INDUSTRIAL AND HAZARDOUS WASTE ⁷⁹	15	\$375,857	\$84,249	\$265,609	\$25,999
MUNICIPAL SOLID WASTE	40	\$561,554	\$275,386	\$261,197	\$24,971
OCCUPATIONAL CERTIFICATION	14	\$22,543	\$1,063	\$21,480	\$0
PETROLEUM STORAGE TANKS	371	\$2,750,295	\$392,730	\$2,335,211	\$22,354
PUBLIC WATER SUPPLY ⁸⁰	360	\$398,343	\$46,795	\$327,712	\$23,836
WATER RIGHTS	9	\$5,026	\$130	\$4,896	\$0
WATER QUALITY	292	\$4,040,673	\$421,161	\$1,577,119	\$2,042,393
MULTI-MEDIA	82	\$2,123,629	\$224,204	\$1,200,144	\$699,281
STIPULATED PENALTIES COLLECTED		\$140,500	\$0	\$70,250	\$70,250
TOTALS	1,370	\$13,520,045	\$1,935,846	\$7,593,779	\$3,3990,420

⁷⁹ Includes Underground Injection Control and Emergency Response cases.

⁸⁰ Includes Water Utility cases.

Table T-27: Summary of Administrative Orders Issued FY 2017

PROGRAMS	TABLE T-27: SUMMARY OF ADMINISTRATIVE ORDERS ISSUED FY 2017				
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY	SEP CONDITIONAL OFFSET
AGRICULTURE	9	\$38,115	\$6,121	\$31,994	\$0
AIR	165	\$7,900,531	\$830,937	\$3,932,545	\$3,137,049
DRY CLEANERS	1	\$5,000	\$1,000	\$4,000	\$0
INDUSTRIAL AND HAZARDOUS WASTE ⁸¹	16	\$498,730	\$151,831	\$327,145	\$19,754
MUNICIPAL SOLID WASTE	52	\$914,473	\$438,272	\$352,400	\$123,801
OCCUPATIONAL CERTIFICATION	23	\$26,956	\$1,910	\$25,046	\$0
PETROLEUM STORAGE TANKS	567	\$4,357,865	\$803,263	\$3,478,017	\$76,585
PUBLIC WATER SUPPLY ⁸²	324	\$328,533	\$37,889	\$278,172	\$12,472
WATER RIGHTS	8	\$3,260	\$284	\$2,976	\$0
WATER QUALITY	277	\$3,831,741	\$648,877	\$1,932,448	\$1,259,766
MULTI-MEDIA	54	\$623,733	\$145,100	\$360,479	\$118,154
STIPULATED PENALTIES COLLECTED		\$412,750	\$0	\$206,375	\$206,375
TOTALS	1496	\$18,941,687	\$3,065,484	\$10,931,597	\$4,944,336

⁸¹ Includes Underground Injection Control and Emergency Response cases.

⁸² Includes Water Utility cases.

Table T-28: Summary of Administrative Orders Issued FY 2016

PROGRAMS	TABLE T-28: SUMMARY OF ADMINISTRATIVE ORDERS ISSUED FY 2016				
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY	SEP CONDITIONAL OFFSET
AGRICULTURE	7	\$15,944	\$3,187	\$12,757	\$0
AIR	217	\$6,135,284	\$921,415	\$3,239,021	\$1,974,848
DRY CLEANERS	1	\$750	\$150	\$600	\$0
INDUSTRIAL AND HAZARDOUS WASTE ⁸³	23	\$417,859	\$104,901	\$266,579	\$46,379
MUNICIPAL SOLID WASTE	54	\$376,944	\$122,129	\$238,615	\$16,200
OCCUPATIONAL CERTIFICATION	38	\$27,679	\$2,295	\$25,384	\$0
PETROLEUM STORAGE TANKS	300	\$2,400,666	\$364,472	\$2,020,110	\$16,084
PUBLIC WATER SUPPLY ⁸⁴	327	\$363,991	\$44,230	\$313,074	\$6,687
WATER RIGHTS	9	\$7,094	\$358	\$6,736	\$0
WATER QUALITY	355	\$3,792,133	\$581,655	\$2,169,151	\$1,041,327
MULTI-MEDIA	73	\$984,349	\$186,780	\$693,036	\$104,533
STIPULATED PENALTIES COLLECTED		\$553,000	\$0	\$276,500	\$276,500
TOTALS	1404	\$15,075,693	\$2,331,572	\$9,261,563	\$3,482,558

⁸³ Includes Underground Injection Control and Emergency Response cases.

⁸⁴ Includes Water Utility cases.

Table T-29: Summary of Administrative Orders Issued FY 2015

PROGRAMS	TABLE T-29: SUMMARY OF ADMINISTRATIVE ORDERS ISSUED FY 2015				
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY	SEP CONDITIONAL OFFSET
AGRICULTURE	2	\$6,187	\$0	\$6,187	\$0
AIR	270	\$6,806,417	\$825,200	\$3,666,321	\$2,314,896
DRY CLEANERS	2	\$10,500	\$2,100	\$8,400	\$0
INDUSTRIAL AND HAZARDOUS WASTE ⁸⁵	21	\$3,169,929	\$357,848	\$2,774,462	\$37,619
MUNICIPAL SOLID WASTE	80	\$754,301	\$197,408	\$510,741	\$46,152
OCCUPATIONAL CERTIFICATION	29	\$19,611	\$1,822	\$17,789	\$0
PETROLEUM STORAGE TANKS	420	\$3,128,018	\$386,068	\$2,710,302	\$31,648
PUBLIC WATER SUPPLY ⁸⁶	421	\$609,716	\$102,125	\$503,896	\$3,695
WATER RIGHTS	33	\$29,071	\$1,544	\$26,217	\$1,310
WATER QUALITY	319	\$3,092,022	\$528,874	\$1,874,428	\$688,720
MULTI-MEDIA	84	\$779,266	\$79,291	\$574,900	\$125,075
STIPULATED PENALTIES COLLECTED		\$584,000	\$0	\$292,000	\$292,000
TOTALS	1,681	\$18,989,038	\$2,482,280	\$12,965,643	\$3,541,115

⁸⁵ Includes Underground Injection Control and Emergency Response cases.

⁸⁶ Includes Water Utility cases.

Table T-30: Summary of Administrative Orders Issued FY 2014

PROGRAMS	TABLE T-30: SUMMARY OF ADMINISTRATIVE ORDERS ISSUED FY 2014				
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY	SEP CONDITIONAL OFFSET
AGRICULTURE	3	\$12,866	\$250	\$12,616	\$0
AIR	231	\$5,184,041	\$586,024	\$2,970,545	\$1,627,472
DRY CLEANERS	1	\$4,550	\$0	\$4,550	\$0
INDUSTRIAL AND HAZARDOUS WASTE ⁸⁷	10	\$603,067	\$50,711	\$530,941	\$21,415
MUNICIPAL SOLID WASTE	37	\$333,402	\$37,823	\$288,939	\$6,640
OCCUPATIONAL CERTIFICATION	19	\$16,921	\$474	\$16,447	\$0
PETROLEUM STORAGE TANKS	682	\$4,339,350	\$527,093	\$3,768,140	\$44,117
PUBLIC WATER SUPPLY ⁸⁸	391	\$527,148	\$121,424	\$399,123	\$6,601
WATER RIGHTS	24	\$27,370	\$6,158	\$21,212	\$0
WATER QUALITY	260	\$2,235,545	\$365,625	\$1,329,560	\$540,360
MULTI-MEDIA	50	\$806,905	\$192,548	\$508,647	\$105,710
STIPULATED PENALTIES COLLECTED		\$534,000	\$0	\$267,000	\$267,000
TOTALS	1,708	\$14,625,165	\$1,888,130	\$10,117,720	\$2,619,315

⁸⁷ Includes Underground Injection Control and Emergency Response cases.

⁸⁸ Includes Water Utility cases.

Table T-31: Summary of Civil Judicial Orders Issued FY 2019

PROGRAMS	TABLE T-31: SUMMARY OF CIVIL JUDICIAL ORDERS ISSUED FY 2019			
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY
AGRICULTURE	0	\$0	\$0	\$0
AIR	4	\$1,029,500	\$0	\$1,029,500
DAM	1	\$0	\$0	\$0
INDUSTRIAL AND HAZARDOUS WASTE ⁸⁹	1	\$367,250	\$0	\$367,250
MUNICIPAL SOLID WASTE	4	\$313,050	\$0	\$313,050
OCCUPATIONAL CERTIFICATION	0	\$0	\$0	\$0
PETROLEUM STORAGE TANKS	6	\$380,687	\$0	\$380,687
PUBLIC WATER SUPPLY ⁹⁰	6	\$576,927	\$0	\$576,927
WATER QUALITY	3	\$87,000	\$12,500	\$74,500
MULTI-MEDIA	5	\$339,473	\$0	\$339,473
TOTALS	30	\$3,093,887	\$12,500	\$3,081,387

⁸⁹ Includes Underground Injection Control, Dry Cleaners, and Emergency Response cases.

⁹⁰ Includes Water Rights and Water Utility cases.

Table T-32: Summary of Civil Judicial Orders Issued FY 2018

PROGRAMS	TABLE T-32: SUMMARY OF CIVIL JUDICIAL ORDERS ISSUED FY 2018			
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY
AGRICULTURE	0	\$0	\$0	\$0
AIR	5	\$479,500	\$10,000	\$469,500
INDUSTRIAL AND HAZARDOUS WASTE ⁹¹	2	\$136,662	\$0	\$136,662
MUNICIPAL SOLID WASTE	9	\$1,035,450	\$0	\$1,035,450
OCCUPATIONAL CERTIFICATION	0	\$0	\$0	\$0
PETROLEUM STORAGE TANKS	5	\$350,179	\$7,500	\$342,679
PUBLIC WATER SUPPLY ⁹²	4	\$238,729	\$0	\$238,729
WATER QUALITY	2	\$286,394	\$0	\$286,394
MULTI-MEDIA	7	\$1,319,400	\$12,000	\$1,307,400
TOTALS	34	\$3,846,314	\$29,500	\$3,816,814

⁹¹ Includes Underground Injection Control, Dry Cleaners, and Emergency Response cases.

⁹² Includes Water Rights and Water Utility cases.

Table T-33: Summary of Civil Judicial Orders Issued FY 2017

PROGRAMS	TABLE T-33: SUMMARY OF CIVIL JUDICIAL ORDERS ISSUED FY 2017			
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY
AGRICULTURE	0	\$0	\$0	\$0
AIR	1	\$82,000	\$0	\$82,000
INDUSTRIAL AND HAZARDOUS WASTE ⁹³	2	\$233,350	\$40,000	\$193,350
MUNICIPAL SOLID WASTE	9	\$408,073	\$0	\$408,073
OCCUPATIONAL CERTIFICATION	0	\$0	\$0	\$0
PETROLEUM STORAGE TANKS	1	\$43,700	\$0	\$0
PUBLIC WATER SUPPLY ⁹⁴	3	\$537,759	\$0	\$537,579
WATER QUALITY	2	\$11,050	\$5,663	\$5,388
MULTI-MEDIA	4	\$102,926	\$0	\$102,926
TOTALS	22	\$1,418,678	\$45,663	\$1,329,315

⁹³ Includes Underground Injection Control, Dry Cleaners, and Emergency Response cases.

⁹⁴ Includes Water Rights and Water Utility cases.

Table T-34: Summary of Civil Judicial Orders Issued FY 2016

PROGRAMS	TABLE T-34: SUMMARY OF CIVIL JUDICIAL ORDERS ISSUED FY 2016			
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY
AGRICULTURE	0	\$0	\$0	\$0
AIR	4	\$323,669	\$0	\$323,669
INDUSTRIAL AND HAZARDOUS WASTE ⁹⁵	1	\$3,000	\$0	\$3,000
MUNICIPAL SOLID WASTE	3	\$53,833	\$0	\$53,833
OCCUPATIONAL CERTIFICATION	0	\$0	\$0	\$0
PETROLEUM STORAGE TANKS	6	\$188,835	\$0	\$188,835
PUBLIC WATER SUPPLY ⁹⁶	4	\$415,900	\$100,000	\$315,900
WATER QUALITY	9	\$163,400	\$0	\$163,400
MULTI-MEDIA	4	\$232,978	\$0	\$232,978
TOTALS	31	\$1,381,615	\$100,000	\$1,281,615

⁹⁵ Includes Underground Injection Control, Dry Cleaners, and Emergency Response cases.

⁹⁶ Includes Water Rights and Water Utility cases.

Table T-35: Summary of Civil Judicial Orders Issued FY 2015

PROGRAMS	TABLE T-35: SUMMARY OF CIVIL JUDICIAL ORDERS ISSUED FY 2015			
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY
AGRICULTURE	1	\$150,000	\$0	\$150,000
AIR	1	\$50,000	\$0	\$50,000
INDUSTRIAL AND HAZARDOUS WASTE ⁹⁷	3	\$10,045,275	\$0	\$10,045,275
MUNICIPAL SOLID WASTE	16	\$1,835,944	\$0	\$1,835,944
OCCUPATIONAL CERTIFICATION	0	\$0	\$0	\$0
PETROLEUM STORAGE TANKS	7	\$654,407	\$0	\$654,407
PUBLIC WATER SUPPLY ⁹⁸	11	\$1,084,807	\$0	\$1,084,807
WATER QUALITY	2	\$1,600	\$0	\$1,600
MULTI-MEDIA	5	\$2,346,600	\$0	\$2,346,600
TOTALS	46	\$16,168,633	\$0	\$16,168,633

⁹⁷ Includes Underground Injection Control, Dry Cleaners, and Emergency Response cases.

⁹⁸ Includes Water Rights and Water Utility cases.

Table T-36: Summary of Civil Judicial Orders Issued FY 2014

PROGRAMS	TABLE T-36: SUMMARY OF CIVIL JUDICIAL ORDERS ISSUED FY 2014				
	NUMBER OF ORDERS ISSUED	ASSESSED	DEFERRED	PAYABLE PENALTY	SEP CONDITIONAL OFFSET ⁹⁹
AGRICULTURE	0	\$0	\$0	\$0	\$0
AIR	7	\$895,790	\$0	\$895,790	\$0
INDUSTRIAL AND HAZARDOUS WASTE ¹⁰⁰	1	\$48,974	\$0	\$48,974	\$0
MUNICIPAL SOLID WASTE	2	\$247,625	\$0	\$247,625	\$0
OCCUPATIONAL CERTIFICATION	0	\$0	\$0	\$0	\$0
PETROLEUM STORAGE TANKS	6	\$322,118	\$0	\$322,118	\$0
PUBLIC WATER SUPPLY ¹⁰¹	0	\$0	\$0	\$0	\$0
WATER QUALITY	4	\$1,343,845	\$5,250	\$1,338,595	\$0
MULTI-MEDIA	3	\$3,325,668	\$0	\$3,325,668	\$0
TOTALS	3	\$6,184,020	\$5,250	\$6,178,770	\$0

⁹⁹ Beginning in FY 2014, the OAG no longer approves SEPs.

¹⁰⁰ Includes Underground Injection Control, Dry Cleaners, and Emergency Response cases.

¹⁰¹ Includes Water Rights and Water Utility cases.