

# ANNUAL REPORT

FY 2017

*Division of Environmental Health  
Department of Public Health and Social Services*

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# STAFF PHOTOS FY 2017

**OFFICE OF THE CHIEF:**  
**Seated, from left:** Remy Suva,  
M. Thomas Nadeau, and  
Terry Barcinas.



**PRESCRIPTION  
DRUG  
MONITORING  
PROGRAM:**  
Jeffrey S. Pinaula.

**BUREAU OF  
PROGRAM  
SUPPORT AND  
INFORMATION:**  
**Seated, from left:**  
Cynthia Naval and  
Francis Epres.



**PROCESSING CENTER SECTION:**  
**From left:** Teresita Muna, Jennifer Mendiola, and  
Deborah Mafnas

**BUREAU OF COMPLIANCE AND  
INVESTIGATION: Standing, from left:**  
James Cruz, Derien Mitchell, Tamera Shimizu,  
Claire Baradi, Rosanna Rabago, Michelle  
Lastimoza, Chie Takase, and Jerome Garcia.



**BUREAU OF INSPECTION AND  
COMPLIANCE: Standing, from left:** Vener  
Raymundo, Remiliza Oriondo, Katherine Duenas,  
Marilou Scroggs, Katherine Del Mundo, Maria  
Leilani Navarro, and Evan Lum.



# ACRONYMS

BCI	Bureau of Compliance and Investigation
BIE	Bureau of Inspection and Enforcement
BPSI	Bureau of Program Support and Information
CCP	Consumer Commodities Program
CDC	U.S. Centers for Disease Control and Prevention
CPSC	Consumer Protection Safety Commission
CSP	Controlled Substances Program
CSR	Controlled Substances Registration
DEA	U.S. Drug Enforcement Administration
DEH	Division of Environmental Health
DPHSS	Department of Public Health & Social Services
EPHO	Environmental Public Health Officer
FDA	U. S. Food and Drug Administration
GCQA	Guam Customs and Quarantine Agency
GEPHEM	Guam Environmental Public Health Education Month
GEPHL	Guam Environmental Public Health Laboratory
GFC	Guam Food Code
GFSTF	Guam Food Safety Task Force
HRE	Health-Regulated Establishment
MFSE	Mobile Food Service Establishment
MSCP	Mosquito Surveillance and Control Program
NRC	U.S. Nuclear Regulatory Commission
OAG	Office of the Attorney General of Guam
P&S	Plans and Specifications Section
PCS	Processing Center Section
PDMP	Prescription Drug Monitoring Program
PMD	Preventive Medicine Department, U.S. Naval Hospital Guam
TFSE	Temporary Food Service Establishment
USDA	U. S. Department of Agriculture

# MISSION AND VISION

## **MISSION STATEMENT**

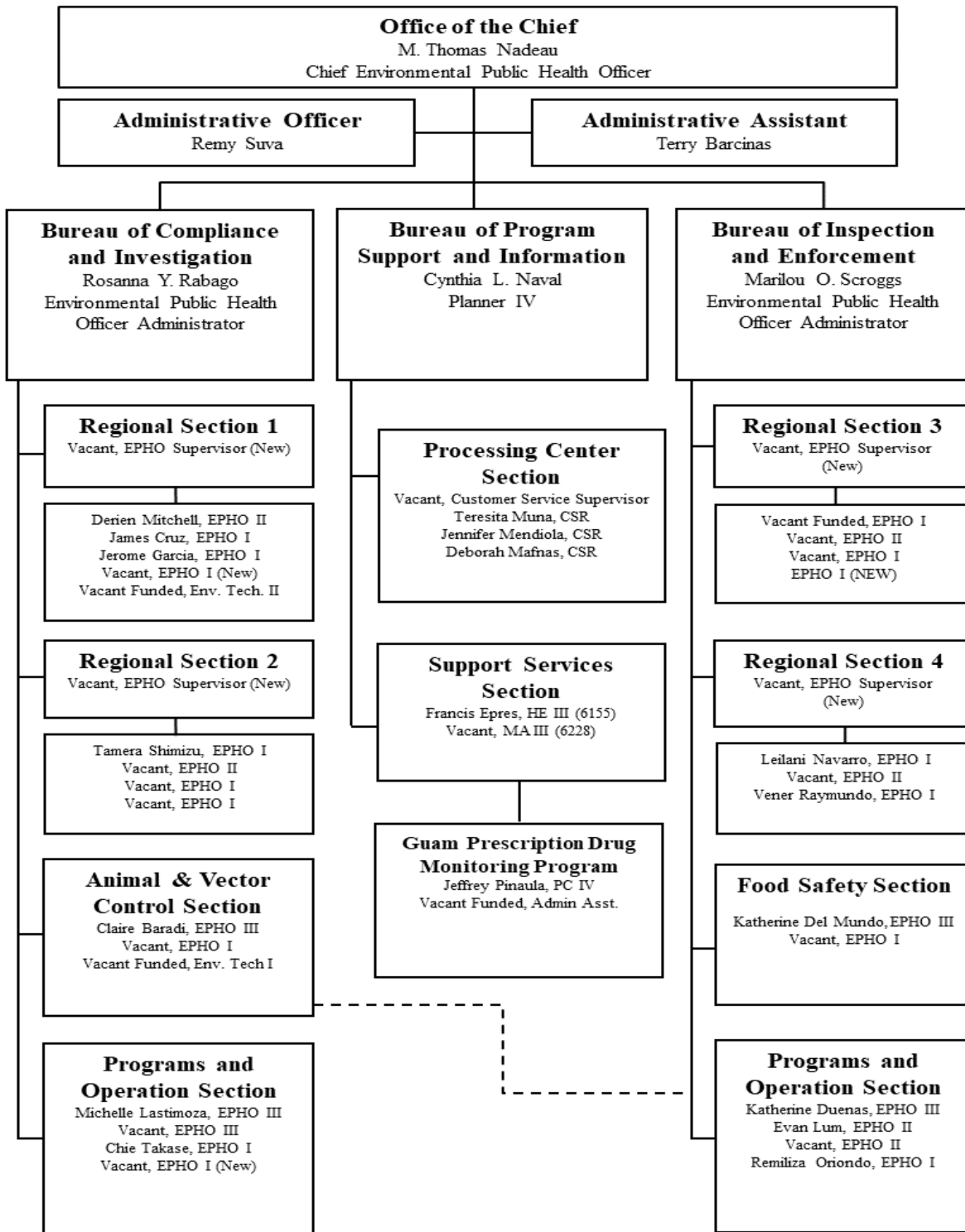
The mission of the Division of Environmental Health of the Department of Public Health and Social Services is to serve and protect the people of Guam from environmental hazards and drug diversion through education and the implementation of governing laws designed to prevent injuries, disabilities, diseases, and deaths.

## **VISION STATEMENT**

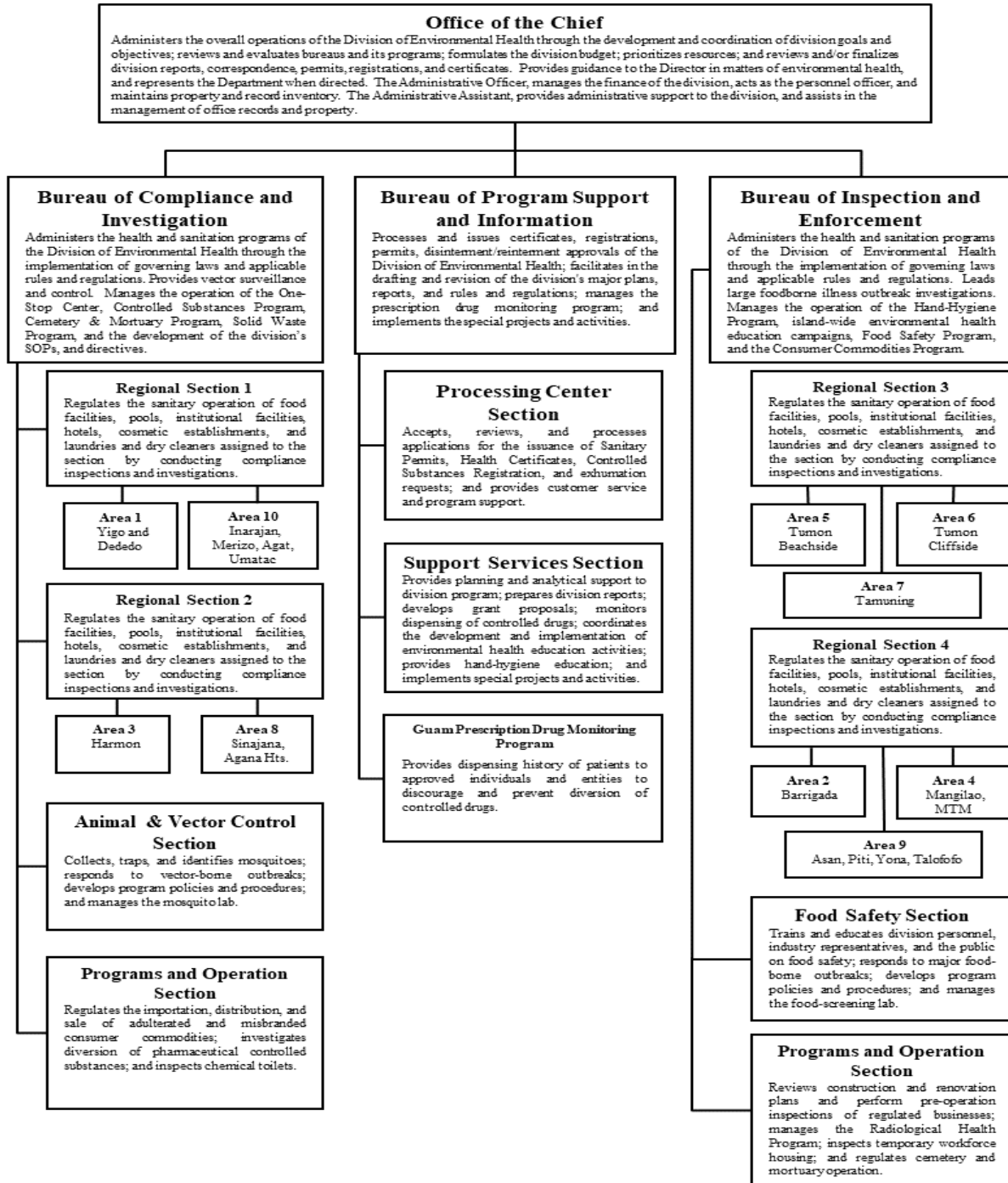
The people of Guam are not adversely impacted by their environment through the effective operation of DEH programs resulting in a satisfied, healthier, and more knowledgeable population.

# DEH ORGANIZATIONAL CHART

## Division of Environmental Health Organizational Chart



## Division of Environmental Health Functional Chart



# FISCAL YEAR 2017 HIGHLIGHTS

This section illustrates the significant highlights of the Division of Environmental Health (DEH) in Fiscal Year 2017.

## ***GUAM ENVIRONMENTAL PUBLIC HEALTH LABORATORY***

DEH occupied the new Guam Environmental Public Health Laboratory (GEPHL) on June 09, 2017. The new Biosafety Level 2 and 3 (BSL-2/3) facility was constructed from a \$3 million CIP grant that was awarded to the Department from the Office of Insular Affairs, U.S. Department of Interior in 2011. The 9,000 square foot building was completed in 2016. It includes a mosquito surveillance and control laboratory, a food screening laboratory, and an auditorium-style training Room that seats 50 people and will be used to hold training for DEH personnel on vector (i.e., mosquito) surveillance and control.



Photo 1. Guam Environmental Public Health Laboratory (GEPHL) building located on W. Santa Monica Ave. in Dededo, Guam. (Source: DEH)



Photo 2. GEPHL Food Screening Laboratory. (Source: DEH)



Photo 3. GEPHL Mosquito Rearing Room. Surveillance samples (all stages of the mosquito life cycle) are brought in from the field and reared for identification and/or testing. (Source: DEH)

It is the vision of DEH that its mosquito laboratory will serve as a regional laboratory for this part of the Pacific so that early detection of pathogens and identification can be accomplished.

For the food screening laboratory, which has yet to be operational, necessary instruments and training have been obtained, and DEH anticipates that preliminary testing will begin by September

## FISCAL YEAR 2017 HIGHLIGHTS

2018. The food screening laboratory will also seek to test environmental samples for the purposes of surveillance and outbreak response. Slowly, as the food screening laboratory becomes fully operational, DEH will move towards becoming a certified food laboratory for Guam and possibly for the region.

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### ***PERSONNEL***

The Division had a net decrease in the number of personnel during the fiscal year. Planner IV Cynthia Naval retired on January 20, 2017, after more than 30 years of service in the Government of Guam. Administrative Assistant Louis Schmelzinger was recruited in April 2017, but resigned after a few months on July 28, 2017, and Customer Service Representative Deborah Mafnas continued her extended medical leave. Three people were recruited and filled the vacant Environmental Public Health Officer I position: Tamera Shimizu on July 12, 2017, Vener Raymundo on July 31, 2017, and Chie Takase on August 14, 2017.

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### ***PROCESSING CENTER***

The Processing Center Section (PCS) issued the following number of permits, certificates, and registrations, along with the respective revenue\* in parentheses: 3,212 Sanitary Permits (\$880,231); 37,377 Health Certificates (\$304,042); and 584 Guam Controlled Substances Registration Certificates (\$77,360). PCS also approved 23 Disinterment and 10 Disinterment-Reinterment requests in FY 2017. \*Note: Revenue reflects dollar figures provided in AS400.

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### ***GRANTS***

The Division was awarded the 2017 Office of Insular Affairs, U.S. Department of Interior Technical Assistance Program (TAP) grant to help improve its customer service through the use of technology. DEH serves over 30,000 Health Certificate, Sanitary Permit, and Controlled Substances Registration applicants every year. This grant will help improve efficiency by using web-enabled applications to create a database where applicants can renew their Health Certificate and Sanitary Permit online. The grant will also allow for the development of the Health Certificate Photo Identification Card, which DEH has been attempting to implement for several years.

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### ***GUAM FOOD CODE***

- *Use of “TFSE Acknowledgement Form” for Temporary Food Service Establishments*

In an attempt to achieve greater compliance from TFSE operators, and to obtain a written acknowledgment from them of the consequences of their non-compliance, DEH developed and utilized the document, “TFSE Acknowledgement Form.” The form was first utilized in FY 2017 when regulating TFSEs participating in the Chamorro Village Wednesday Night Markets (CVWNM) and weekend village festivals. The Acknowledgement Form listed in detail the requirements in operating a TFSE, which the operators were required to read and acknowledge with the placement of their initial next to each listed requirement. The use of the Acknowledgement Form resulted in improved compliance by the permit holder, and less resistance from during enforcement actions as the inspectors would present them the initialed form as a reminder of their acknowledgment and the consequences of their non-compliance. After the



## FISCAL YEAR 2017 HIGHLIGHTS

successful use of the form at the CVWNM and village festivals, DEH expanded its use to all TFSEs.

- *Guardians of the Food Galaxy*

The Division contracted for the creation of a storybook and electronic activity book for its Food Safety Program mascots, Guardians of the Food Galaxy, to be used to assist in the education of children about good food safety habits. The concepts and images of these mascots originated from the poster contest held during DEH's 10<sup>th</sup> Annual Guam Food Safety Education Month 2015 and the recommendations received from the Guam Food Safety Task Force (Photo 4). DEH will begin to promote the mascots and actively incorporate them into its food safety education during next Environmental Public Health Education Month when food safety is the theme of the event.



Photo 4. Guardians of the Food Galaxy (Source: DEH)

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### **MOSQUITO SURVEILLANCE AND CONTROL**

- *Active Surveillance of Mosquitoes*

In March 2017, the Mosquito Surveillance and Control Program (MSCP) of DEH began concentrating on mosquito surveillance activities through irregular spot surveillance using the CDC Light Trap, BG-Sentinel Trap, and oviposition mosquito traps. With the occupation of the Guam Environmental Public Health Laboratory (GEPHL) on June 09, 2017, the MSCP was able to further focus on, and build up, its surveillance and laboratory activities. These activities included the preparation and troubleshooting of mosquito traps for routine and mosquito-borne disease response trapping; rearing of mosquito larvae samples to adult; adult mosquito sorting and identification; and building a mosquito repository for reference specimens.

In July 2017, a more routine, progressive surveillance schedule was adopted based on the Guam Vector Management Strategic Plan. Identified as *Tier 1* in the plan, MSCP started the surveillance of Guam's ports of entry and high-risk transmission areas (e.g., schools; health facilities; and disadvantaged, densely populated, neighborhoods). The establishment of an active surveillance program resulted in the discovery of a mosquito species (*Wyeomyia mitchellii*) that was previously unknown on Guam.

- *Miss Skeeta*

By contracting a vendor, the Division created two books based on MSCP's mascot, Miss Skeeta. The two books, *Miss Skeeta's Helpful Mosquito Tips*, and *Miss Skeeta's Activity Book* were created as a part of the MSCP's educational campaign to teach children about mosquito bite prevention and source reduction.



Photo 5. Miss Skeeta's Helpful Mosquito Tips (Source: DEH)

# FISCAL YEAR 2017 HIGHLIGHTS

## ***OUTREACH***

- *Cosmetic Establishments*

The Division held its 2<sup>nd</sup> Annual Guam Environmental Public Health Education Month (GEPHEM) in September 2017. The celebration began with the presentation of the signed proclamation by the Governor of Guam on August 22, 2017, which was officiated by Chief of Staff Mark Calvo. With the theme, *Beauty is Only Skin Deep, but Health and Safety are Forever!* DEH promoted the safe and sanitary operation of the island's cosmetic establishments through the use of social media (Facebook, Instagram, and Twitter), television commercials, and



Photo 6: Governor's Chief of Staff, Mark Calvo, center, reads the Proclamation declaring September 2017 as the 2<sup>nd</sup> Annual Guam Environmental Public Health Education Month. From left, M. Thomas Nadeau, Calvo, Director James W. Gillan. (Source: J. Pinaula, 8/22/17)

video promotion in movie theaters. In addition, educational brochures and posters were distributed to cosmetic establishments throughout the island.

- *Controlled Substances Program and Prescription Drug Monitoring Program*

The staff of the Division's Controlled Substances Program and the Prescription Drug Monitoring Program participated in the National Prescription Drug Take Back Campaign on April 29, 2017, at the Agaña Shopping Center in Hagåtña by distributing posters and flyers to numerous local pharmacies, shopping centers, clinics, and the Guam Memorial Hospital Authority. The campaign provided the public an opportunity to drop off unused, unwanted, and/or expired medications for proper disposal by the U.S. Drug Enforcement Agency (DEA).

- *Hand Hygiene*

During the fiscal year, DEH's Health Educator III conducted 54 hours of presentations to 1,068 students at four elementary schools: B.P. Carbullido Elementary, Wettengel Elementary, L.B. Johnson Elementary, and Finegayan Elementary Schools. The presentation covered the proper handwashing technique, when to wash hands, and the importance of washing one's hands.

## ***ADMINISTRATIVE PENALTIES***

There were nine administrative penalties that were served to owners of various health-regulated establishments in FY 2017. A total of \$1,800.00 in monetary penalties were collected and deposited into the General Fund account. One owner requested a hearing, which resulted in an affirmation of the penalty. Another establishment was served two separate administrative penalties. All eight establishments paid their fines.

# FISCAL YEAR 2017 HIGHLIGHTS

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## ***COMPLAINTS***

A total of 232 complaints were received in Fiscal 2017. Added to these complaints was one carried over from FY 2014, eleven from FY 2015, and fifty-nine from FY 2016 that were either pending corrective action or follow-up by DEH staff. One hundred thirty-seven cases were closed this fiscal year; 132 complaints that were pending corrective action were carried into FY 2018.

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## ***COMPLIANCE INSPECTIONS***

The Division conducted a total of 1,061 sanitation inspections of 548 different health-regulated facilities. This was an increase of 1.6% over the number of inspections conducted in FY 2016. Of the 1,061 inspections conducted, 253 were of temporary food service establishments (23.8%), 192 dormitories (16.0%), 159 child care facilities (15.0%), and 85 restaurants (8.0%). The slight increase in inspection number from the previous fiscal year was still less than 10% of the total mandated by law (~12,000 inspections), which directs DEH to inspect every health-regulated establishment four times a year.

The Division conducted regulatory inspections of food vendors at the 2017 Micronesian Island Fair at Paseo in Hagåtña, which was held May 3-7, 2017; there were 31 TFSE vendors and eight MFSE vendors at the event. Unlike the previous years where the Fair was held for three consecutive days, the event in FY 2017 operated for five days. Thus, the event organizer had requested for the waiver of the full-enclosure requirement, which the Department granted, but with the provision that DEH would be increasing its monitoring during the festival and the full-enclosure waiver could be rescinded, if necessary, to protect the public. Consequently, DEH staff conducted inspections of all the food vendors and monitored their activities throughout the entire event.

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## ***CONSUMER COMMODITIES***

A total of 14 importations of commodities detained by Guam Customs and Quarantine Agency were acted upon by DEH. From these shipments, DEH staff reviewed a total of 14 detainments, which were comprised of the following: two foods (14.3%), three drugs (21.4%), three cosmetics (21.4%), one hazardous substance (7.14%), and five in multiple categories (35.7%). A total of 12,487 pieces of consumer articles were detained this fiscal year. A breakdown by type and amount is as follows: Food (110), Food/Drug (374), Drug (56), Drug/Cosmetic (10,274), Cosmetic (343), and Hazardous Substance (1,330). These detained commodities originated from the Philippines, South Korea, Taiwan, Japan, China, and Malaysia.

In response to 69 product recalls initiated by the USFDA and the USDA, 2,517 emails were sent to various island businesses, and seven press releases were issued. The press releases were for recalled food items that were found on Guam. There was no activity conducted for recalls issued by the U.S. Consumer Product Safety Commission this fiscal year.

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## ***CONTROLLED SUBSTANCES***

The pharmaceutical drug investigation, relative to an Administrative Search Warrant that was executed at a local veterinary clinic during FY 2013, resulted in several court hearings at the Guam Supreme Court during Fiscal Year 2017.

# FISCAL YEAR 2017 HIGHLIGHTS

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## ***REGULATIONS***

Pursuant to the Administrative Adjudication Law, the draft proposed *Rules and Regulations Governing Chemical Toilets* went into effect on September 17, 2017, after the passing of 90 calendar days without any action by the Guam Legislature. As a result, the three local chemical toilet companies will be required to obtain a Chemical Toilet Permit, maintain records, and comply with the provisions of the regulations. Enforcement of these new regulatory requirements will begin Fiscal Year 2018.

At the request of DEH, the proposed draft *Rules Governing the Manufacture, Distribution, and Dispensing of Controlled Substances* was revisited by the Office of the Attorney General (OAG) for legal review. Originally, these draft rules were to be revised to reflect the adoption of the proposed regulations for medical marijuana that DEH had crafted with the assistance of the OAG; however, with the passage of Public Law 33-184, which disapproved the medical marijuana proposal, these rules no longer needed to incorporate the medical marijuana provisions. At the conclusion of FY 2017, the draft rules were still being reviewed and revised. DEH anticipates that the *Rules Governing the Manufacture, Distribution, and Dispensing of Controlled Substances* will be completed and implemented in FY 2018.

The responsibility of implementing the Medical Marijuana Program was formally transferred to the Division of Public Health (DPH) by the Director of DPHSS. DEH's mandates [Uniform Controlled Substances Act (Title 9 GCA, Chapter 67) and the Guam Food, Drug, and Cosmetic Act (Title 10 GCA, Chapter 40)] conflict with the spirit and intent of the medical marijuana law, and thus, the reason cited for the transfer. Despite the transfer, DEH remained active in assisting DPH in developing the revised draft Rules and Regulations Governing Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013. DEH participated in the public hearings and meetings with stakeholders and staff of Senator Dennis Rodriguez's office who oversaw the legislative health committee. At the end of FY 2017, the medical marijuana regulations had yet to be approved and finalized.

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## ***MISCELLANEOUS***

On January 9 - 11, 2017 and on January 13, 2017, DEH staff shadowed, and assisted where possible, an inspector with the U.S. Nuclear Regulatory Commission (NRC). NRC's mission is to ensure the safe use of radioactive materials for civilian purposes and to confirm compliance with the NRC's rules and regulations. The staff of DEH's Radiological Health Program accompanied Ms. Janine Katanic, Senior Health Physicist, to conduct inspections of NRC-licensed facilities. Eight inspections were conducted, and enforcement actions against two licensees were initiated for violating NRC standards. By observing Ms. Katanic's inspections, DEH learned some aspects of NRC standards for conducting inspections.

DEH staff worked closely with the Department of Parks and Recreation and the Lion's Club of Guam to remove three animal structures at the Paseo public playground, located near the Paseo softball stadium in Hagåtña. These structures, which were donated and installed by the Lion's Club, were deemed public nuisance by DEH because of the hazards it posed to the public, especially to children utilizing the playground. All three structures possessed impalement, tripping, and/or fall hazards in violation of Title 10 Guam Code Annotated, Chapter 20. All animal structures were eventually removed from the playground premises at the end of the fiscal year.



# RESOURCES

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## ***APPROPRIATIONS***

DEH received a total budget of \$2,306,117 to fund personnel and operations of the Division in Fiscal Year 2017 from the Environmental Health Fund (EHF), DPHSS Sanitary Inspection Revolving Fund (DSIRF), and the General Fund (GF) (**Table 1**). This was not inclusive of the Controlled Substances Diversion Fund (\$73,548.88), the unexpended balance of FY 2016 Environmental Health Fund (\$364,712.88), the federal grant funds of the Guam Prescription Drug Monitoring Program, the Department of the Interior Technical Assistance Program, and the Epidemiology and Laboratory Capacity Grant.

Of the total appropriated funds in FY 2017:

- \$859,914 was from the General Fund;
- \$1,311,615 was from the Environmental Health Fund; and
- \$134,588 was from the DPHSS Sanitary Inspection Revolving Fund (DSIRF).

Of the amount appropriated, \$2,160,497 (94%) was released through various allotments to DEH for use during FY 2017.

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## ***PERSONNEL***

The Division recruited three new EPHOs I during the fiscal year. Tamera Shimizu and Vener Raymundo joined DEH in July 2017, and Chie Takase was hired in August 2017. At the end of the fiscal year, there were 23 staff members, including one funded by the Guam Prescription Drug Monitoring Program. The FY 2017 staffing pattern for DEH is presented in **Table 2**.

Out of \$1,648,717 appropriated for Personnel, the Division expended \$1,216,503 (74%); the unexpended amount was due to unfunded vacancies. The appropriations for Personnel were \$791,064.00 from the General Fund, \$805,160.00 from EHF, and \$52,493.00 from DSIRF.

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## ***CONTRACTUAL***

The Division was budgeted a total of \$222,547.00 for contractual services in Fiscal Year 2017. The General Fund had \$36,986.00 appropriated for contractual services of which \$24,715.47 was expended. These expenses were for copier lease agreement, vehicle maintenance, blanket purchase agreement for newspaper advertisement, course and examination fee for Certified Pool Operator certification, and printing services. EHF FY 2017 budget for contractual services was \$164,905.00 of which \$76,955.21 was expended. These contractual services included copier lease agreement, dry ice, PHPro computer database enhancement for the temporary workforce housing inspection, janitorial service for both the central Mangilao office and the Guam Environmental Public Health Laboratory (GEPHL), grounds maintenance for GEPHL, printing services, staff uniforms, mosquito program promotional items and supplies, movers to transport large/heavy items to GEPHL, hotel venue for GFSTF quarterly meetings, GPHEM Media Package, DEH central office re-configuration, and course and examination fee for the EPHO's certification. DSIRF had \$20,656.00 appropriated for contractual services, and a total of \$5,752.20 was expended. The list of expenditures is presented in **Table 3**.

A total of \$107,422.88 in contractual services was expended in FY 2017, as follows:

- \$76,955.21 from the Environmental Health Fund (EHF),
- \$24,715.47 from the General Fund (GF), and
- \$5,752.20 from the Sanitation Permit Inspection Revolving Fund (DSIRF).

# RESOURCES

<b>DIVISION OF ENVIRONMENTAL HEALTH FUNDING</b>					
<b>GENERAL FUND (FY 2017 APPROPRIATION)</b>					
<b>O.C.</b>	<b>Personnel Services</b>	<b>Appropriation</b>	<b>Allotments</b>	<b>Expenditures</b>	<b>Lapse</b>
111	Regular Salaries/Increments	\$568,253.00	\$568,253.00	\$397,277.99	\$170,975.01
112	Overtime/Special Pay	\$0.00	\$0.00	\$0.00	\$0.00
113	Benefits	\$222,811.00	\$222,811.00	\$141,536.54	\$81,274.46
	Total Personnel Services	\$791,064.00	\$791,064.00	\$538,814.53	\$252,249.47
<b>O.C.</b>	<b>Operations</b>	<b>Appropriation</b>	<b>Allotments</b>	<b>Expenditures</b>	<b>Lapse</b>
220	Travel Off-Island/Local Mileage Reimbursement	\$21,864.00	\$21,864.00	\$21,171.93	\$692.07
230	Contractual Services	\$36,986.00	\$28,379.00	\$24,715.47	\$10,955.49
233	Office Space Rental	\$0.00	\$0.00	\$0.00	\$0.00
240	Supplies & Materials	\$10,000.00	\$8,500.00	\$8,160.06	\$1,839.94
250	Equipment	\$0.00	\$0.00	\$0.00	\$0.00
280	Sub-recipient/Subgrant	\$0.00	\$0.00	\$0.00	\$0.00
271	Miscellaneous	\$0.00	\$0.00	\$0.00	\$0.00
	Total Operations	\$68,850.00	\$58,743.00	\$54,047.46	\$13,487.50
	<b>SUBTOTAL</b>	<b>\$859,914.00</b>	<b>\$849,807.00</b>	<b>\$592,861.99</b>	<b>\$265,736.97</b>
<b>ENVIRONMENTAL HEALTH FUND (FY 2017 Appropriation)</b>					
<b>O.C.</b>	<b>Personnel Services</b>	<b>Appropriation</b>	<b>Allotments</b>	<b>Expenditures</b>	<b>Lapse</b>
111	Regular Salaries/Increments	\$581,909.00	\$539,376.00	\$458,650.89	\$123,258.11
112	Overtime/Special Pay	\$0.00	\$0.00	\$0.00	\$0.00
113	Benefits	\$223,251.00	\$206,933.00	\$166,530.17	\$56,720.83
	Total Personnel Services	\$805,160.00	\$746,309.00	\$625,181.06	\$179,978.94
<b>O.C.</b>	<b>Operations</b>	<b>Appropriation</b>	<b>Allotments</b>	<b>Expenditures</b>	<b>Lapse</b>
220	Travel- Off-Island/Local Mileage Reimbursement	\$31,250.00	\$27,700.00	\$26,818.70	\$4,431.30
230	Contractual Services	\$164,905.00	\$140,169.00	\$76,955.21	\$83,157.29
233	Office Space Rental	\$0.00	\$0.00	\$0.00	\$0.00
240	Supplies & Materials	\$43,700.00	\$37,145.00	\$37,072.52	\$6,627.48
250	Equipment	\$41,600.00	\$41,600.00	\$35,504.00	\$6,096.00
361	Power Utility	\$150,000.00	\$127,500.00	\$12,782.69	\$137,217.31
362	Water Utility	\$50,000.00	\$42,500.00	\$79.82	\$49,920.18
363	Telephone	\$25,000.00	\$21,250.00	\$3,450.00	\$21,550.00
450	Capital Outlay	\$0.00	\$0.00	\$0.00	\$0.00
	Total Operations	\$506,455.00	\$437,864.00	\$192,662.94	\$308,999.56
	<b>SUBTOTAL</b>	<b>\$1,311,615.00</b>	<b>\$1,184,173.00</b>	<b>\$817,844.00</b>	<b>\$488,978.50</b>
<b>SANITARY INSPECTION REVOLVING FUND (PL 33-66)</b>					
<b>O.C.</b>	<b>Personnel Services</b>	<b>Appropriation</b>	<b>Allotments</b>	<b>Expenditures</b>	<b>Lapse</b>
111	Regular Salaries/Increments	\$37,100.00	\$37,100.00	\$37,107.20	(\$7.20)
112	Overtime/Special Pay	\$0.00	\$0.00	\$0.00	\$0.00
113	Benefits	\$15,393.00	\$15,393.00	\$15,400.18	(\$7.18)
	Total Personnel Services	\$52,493.00	\$52,493.00	\$52,507.38	(\$14.38)
<b>O.C.</b>	<b>Operations</b>	<b>Appropriation</b>	<b>Allotments</b>	<b>Expenditures</b>	<b>Lapse</b>
220	Travel- Off-Island/Local Mileage Reimbursement	\$15,973.00	\$11,000.00	\$10,029.05	\$5,943.95
230	Contractual Services	\$20,656.00	\$17,558.00	\$5,752.20	\$14,903.80
240	Supplies & Materials	\$0.00	\$0.00	\$0.00	\$0.00
250	Equipment	\$10,000.00	\$10,000.00	\$8,991.00	\$1,009.00
450	Capital Outlay	\$35,466.00	\$35,466.00	\$31,000.00	\$4,466.00
	Total Operations	\$82,095.00	\$74,024.00	\$55,772.25	\$26,322.75
	<b>SUBTOTAL</b>	<b>\$134,588.00</b>	<b>\$126,517.00</b>	<b>\$108,279.63</b>	<b>\$26,308.37</b>
	<b>GRAND TOTAL</b>	<b>\$2,306,117.00</b>	<b>\$2,160,497.00</b>	<b>\$1,518,985.62</b>	<b>\$781,023.84</b>

Table 1. Appropriations to the Division of Environmental Health in FY 2017.



# RESOURCES

<b>DIVISION OF ENVIRONMENTAL HEALTH STAFFING PATTERN</b>			
<b>General Fund (5100A161740CE001)</b>			
<b>No.</b>	<b>Position Number</b>	<b>Position Title</b>	<b>Name of Incumbent</b>
1	6340	EPHO III	Duenas, Katherine
2	6344	EPHO III	Baradi, Claire
3	6354	EPHO I	Raymundo, Vener
4	6352	EPHO II	Lum, Evan
5	6518	Management Analyst IV	Vacant
6	6228	Environmental Technician II	Vacant (New)
7	6348	WP Secretary II	Barcinas, Terry
8	6357	Customer Services Representative	Muna, Teresita S.
9	6461	Customer Services Representative Supervisor	Vacant
10	6337	EPHO III	Lastimoza, Michelle
11	6322	EPHO I	Navarro, Maria Leilani
12	6314	EPHO I	Garcia, Jerome
13	6578	Administrative Assistant	Barcinas, Terry
14	6300	EPHO III	Vacant (9/8/06)
15	6305	EPHO III	Vacant (12/1/05)
16	6328	EPHO II	Vacant (7/8/02)
17	6313	EPHO I	Vacant (11/15/02)
18	6299	EPHO II	Vacant (9/29/04)
19	6361	EPHO I	Vacant (1/11/02)
20	6315	EPHO I	Vacant (3/14/02)
21	6317	EPHO I	Vacant/Never Filled
22	6318	EPHO I	Vacant/Never Filled
21	6340	EPHO III	Duenas, Katherine
22	6344	EPHO III	Baradi, Claire
<b>Environmental Health Fund (5600A161740CE201)</b>			
<b>No.</b>	<b>Position Number</b>	<b>Position Title</b>	<b>Name of Incumbent</b>
1	6335	Chief EPHO	Nadeau, M. Thomas
2	6091	EPHO Administrator	Scroggs, Marilou
3	6182	EPHO I	Shimizu, Tamera
4	6042	Administrative Officer	Suva, Remy M.
5	6094	Customer Services Representative	Mendiola, Jennifer
6	6464	Customer Services Representative	Mafnas, Deborah L.
7	6093	EPHO II	Mitchell, Derien K.
8	6188	EPHO I	Cruz, James
9	6026	EPHO I	Vacant Funded
10	6290	EPHO I	Takase, Chie
11	6092	EPHO III	Del Mundo, Katherine U.
12	6165	Health Educator III	Epres, Francis V.
13	6316	EPHO Administrator	Rabago, Rosanna Y.
14	NEW	Env. Public Health Officer Supervisor	Vacant
15	NEW	Env. Public Health Officer Supervisor	Vacant
16	NEW	Env. Public Health Officer Supervisor	Vacant
17	NEW	Env. Public Health Officer Supervisor	Vacant
<b>Sanitary Inspection Revolving Fund (5638A161740CE210)</b>			
1	6226	EPHO I	Oriondo, Remiliza
<b>Guam Prescription Drug Monitoring Program (5101H161740CE101)</b>			
1	6050	Program Coordinator IV	Pinaula, Jeffrey S.

**Table 2. Staffing pattern of the Division of Environmental Health at the end of FY 2017.**

# RESOURCES

<b>CONTRACTUAL</b>		
<b>General Fund FY2017</b>		<b>Expenditures</b>
Xerox Corp	Copier Lease Agreement	\$8,608.56
Nissan/United Tire/One-Stop	Vehicle Maintenance	\$7,500.00
PDN/Marianas Variety	BPA for newspaper ad	\$2,000.00
Saitech Solutions	Repair of Typewriter	\$266.25
Saitech Solutions	Repair of Fax Machine	\$150.00
GEPA	CORE Certification Training	\$795.00
GEPA	CAT7 Certification Training	\$325.00
Xerox Corp	To move the Xerox copier machine to the GEPHL	\$675.66
NEHA	CPFS Exam and NEHA Membership	\$880.00
NEHA	NEHA Membership Renewal	\$665.00
PDN/Marianas Variety	Additional BPA for ads and notices	\$1,200.00
Copy Express	Professional Translations Services for Chuukese	\$150.00
CODE 1	Office Badge w/chain	\$1,500.00
<b>SUBTOTAL</b>		<b>\$24,715.47</b>
<b>Environmental Health Fund FY2017</b>		<b>Expenditures</b>
Xerox Corp.	Maintenance Service	\$13,027.08
Pacific Star	GFSTF Quarterly Meeting	\$467.50
Island Equipment	Dry Ice Production	\$700.00
DMR	Temporary Workforce Housing SP Enhancement	\$12,500.00
Dr. Juan Rapadas	Mental Health Evaluation of DEH Employee	\$643.38
Pacific Star	GFSTF Quarterly Meeting	\$467.50
BIC's	Men & Women's Uniform shirt	\$1,917.00
Gino's	Men & Women's Uniform black pants	\$2,796.00
Flame Tree	Janitorial Services for DEH Central Office	\$3,750.00
JJ Global	Janitorial Services for GEPHL	\$6,152.00
Flame Tree	Grounds Maintenance for GEPHL	\$3,400.00
JV - DPHSS HR	Drug Testing for Administrative Assistant	\$40.00
Adztech	Media Package for 2nd Annual EPHEM	\$12,163.75
Adztech	Education Awareness Month Media Package	\$13,213.50
Action Print	Printing of Health Certificate Cards	\$160.00
Pacific Star	GFSTF Quarterly Meeting	\$467.50
JV -DPHSS HR	Drug testing for new hire	\$120.00
M80	DEH Central Office Re-configuration	\$4,970.00
<b>SUBTOTAL</b>		<b>\$76,955.21</b>
<b>DSIRF FY2017</b>		<b>Expenditures</b>
GTA	Data Services for 19 electronic tablets	\$2,390.20
Hyun, Bo	Professional Translation Services for Health Certificate Food Safety Workshop test questions from English to Korean	\$450.00
American Printing	Printing of Temporary Workforce Housing Inspection Report	\$350.00
American Printing	Professional Translation Services for Health Certificate Food Safety Workshop test questions from English to Japanese	\$640.00
American Printing	Professional Translation Services for Health Certificate Food Safety Workshop test questions from English to Chinese	\$640.00
Copy Express	Professional Translation Services for Health Certificate Food Safety Workshop test questions from English to Tagalog	\$640.00
Copy Express	Professional Translation Services for Health Certificate Food Safety Workshop test questions from English to Chuukese	\$642.00
<b>SUBTOTAL</b>		<b>\$5,752.20</b>
<b>Grand Total</b>		<b>\$107,422.88</b>

**Table 3. Contractual services obtained by the Division of Environmental Health in FY 2017.**

# RESOURCES

## SUPPLIES AND MATERIALS

A total of \$45,232.58 from the General Fund (\$8,160.06) and EHF (\$37,072.52) was appropriated in supplies and materials (**Table 4**). Items that were procured included office supplies, MS Office software, uninterrupted power supply units, and external hard-drives.

<b>SUPPLIES</b>		
<b>General Fund FY2017</b>		<b>Expenditures</b>
Shell Guam	Fuel Charges	\$1,838.09
ERC	Padlocks and hose bib locks	\$421.78
National Office Supply	Copier Paper	\$644.25
Tenda	Office Supplies	\$468.00
Ambros	Paper towel/hand soap	\$4,222.64
Cartridge World	HP Cartridges	\$565.30
	<b>SUBTOTAL</b>	<b>\$8,160.06</b>
<b>Environmental Health Fund FY2017</b>		<b>Expenditures</b>
Guam Modern Office	Office Supplies	\$1,021.80
National Office Supply	Office Supplies	\$774.60
Tenda	Office Supplies	\$1,055.19
Tenda	Office Supplies	\$812.21
Sanford Technology Group	MS Software/UPS/Fax Machine/External HD	\$13,361.05
Tenda	Office Supplies	\$663.44
MD Wholesale	BCI Lab Supplies	\$19,384.23
	<b>SUBTOTAL</b>	<b>\$37,072.52</b>
<b>Sanitary Inspection Revolving Fund FY2017</b>		<b>Expenditures</b>
N/A	N/A	\$0.00
	<b>SUBTOTAL</b>	<b>\$0.00</b>
	<b>GRAND TOTAL</b>	<b>\$45,232.58</b>

**Table 4. Supplies and materials procured by the Division of Environmental Health in FY 2017.**

## EQUIPMENT

Of the \$51,600.00 appropriated for Equipment in FY 2017, \$44,495.00 was expended. Appropriations came from two funding sources, the EHF and DSIRF accounts. Funds were used to purchase equipment such as desktops, and iPads (**Table 5**).

<b>EQUIPMENT</b>		
<b>Environmental Health Fund FY2017</b>		<b>Expenditures</b>
DMR	Desktop Computers (14 each)	\$35,504.00
	<b>SUBTOTAL</b>	<b>\$35,504.00</b>
<b>DPHSS Sanitary Inspection Revolving Fund FY2017</b>		<b>Expenditures</b>
Marianas Electronics	iPad Pro (7 each)	\$8,991.00
	<b>SUBTOTAL</b>	<b>\$8,991.00</b>
	<b>TOTAL</b>	<b>\$44,495.00</b>

**Table 5. Equipment procured by the Division of Environmental Health in FY 2017.**

## TRAVEL

There was \$69,087.00 appropriated for travel in FY 2017, and of this amount, \$58,019.68 (**Table 6**) was expended to send DEH personnel to various destinations to obtain training. These trainings included the Florida Mosquito Control Association's 2017 DODD Short Courses; Cross-

## RESOURCES

Connection Course; NRC Health Physics Course; CSTE Conference on Mosquito Surveillance; 2017 NEHA Annual Educational Conference; 2017 FileMaker Developers Conference; Hands-on FDA and Food Microbiology Training; and Mosquito Lab Training.

<b>TRAVEL</b>	
<b>General Fund FY2017</b>	<b>Expenditures</b>
Rosanna Rabago and Claire Baradi to Orlando, FL on January 30, 2017 - February 02, 2017 for DODD Conference	\$6,560.68
Michelle Lastimoza to Chattanooga, TN on May 15 - 19, 2017 for the NRC Health Physics Course	\$3,086.11
Jeffrey Pinault to Phoenix, AZ on July 23 - 29, 2017 for the 2017 FileMaker Developers Conference	\$4,026.08
<b>SUBTOTAL</b>	<b>\$21,171.93</b>
<b>Environmental Health Fund FY2017</b>	<b>Expenditures</b>
Evan Lum and Derien Mitchell to Los Angeles, CA on March 13-17, 2017 for Cross-Connection Course	\$9,209.50
Michelle Lastimoza to Boise, ID on June 03-08, 2017 for CSTE Conference on Mosquito Surveillance	\$597.18
Tom Nadeau/Jerome Garcia/Remiliza Oriondo to Grand Rapids, MI on July 07- 15, 2017 for NEHA AEC	\$11,199.15
Michelle Lastimoza and Claire Baradi to Sydney, AU on October 02-13, 2017 for mosquito lab training	\$5,812.87
<b>SUBTOTAL</b>	<b>\$26,818.70</b>
<b>Sanitary Inspection Revolving Fund FY2017</b>	<b>Expenditures</b>
K. Del Mundo travel to Alameda, CA and Jamaica, NY for FDA Hands-On Microbiology Training and Course on Aug 27, 2017 - Sept 22, 2017	\$10,029.05
<b>SUBTOTAL</b>	<b>\$10,029.05</b>
<b>TOTAL</b>	<b>\$58,019.68</b>

**Table 6. Off-island travel taken by the staff of the Division of Environmental Health in FY 2017.**

# ACCOMPLISHMENTS

## PROCESSING CENTER

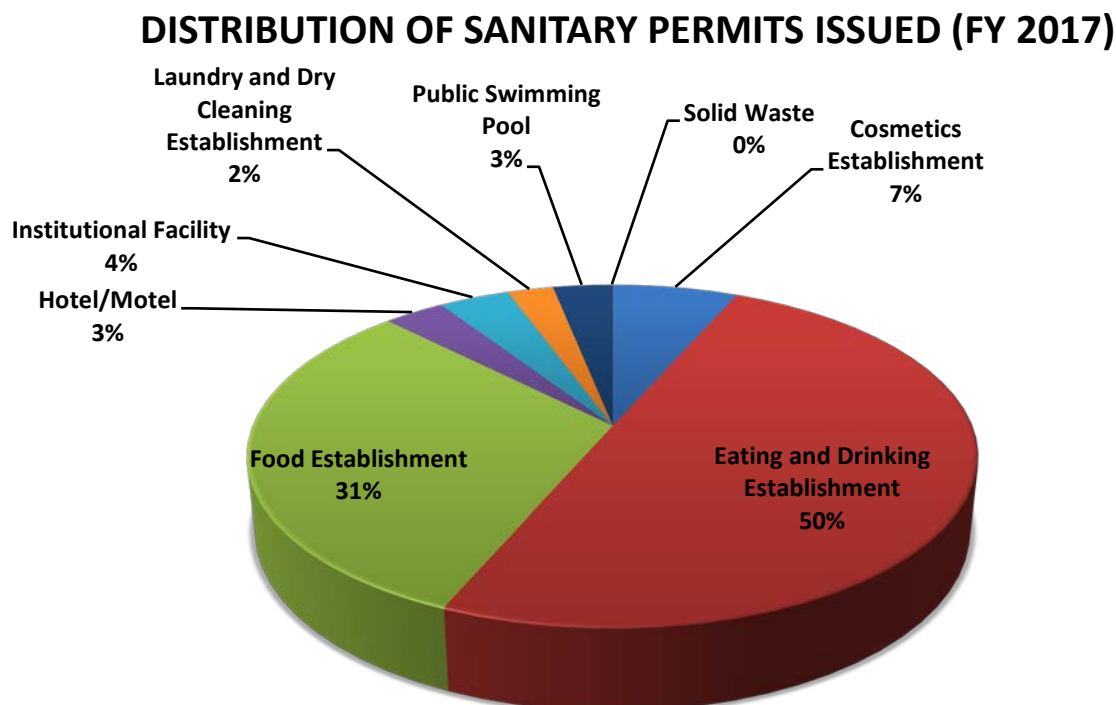
The Processing Center Section (PCS) of the Division of Environmental Health issued 3,261 Sanitary Permits; 37,893 Health Certificates; 584 Guam Controlled Substances Registration Certificates; and 23 Disinterment and 10 Disinterment-Reinterment approvals in FY 2017.

## SANITARY PERMITS

The Division of Environmental Health issued 3,261 Sanitary Permits (inclusive of temporary permits) in FY 2017, which equated to \$879,274.68 in generated revenue (**Table 7, Figure 1**). There were 60 fewer permits issued this year than in FY 2016 (decrease of 1.8%), and \$43,983 less in revenue, which is a decrease of 4.8% over FY 2016. There were modest increases in the number of Sanitary Permits for Eating and Drinking, Food, Laundry and Dry Cleaning, and Public Swimming Pool establishments.

SANITARY PERMIT ISSUANCE		
Category	*Number of Issuances	Revenue
Cosmetics Establishment	214	\$59,914.17
Eating and Drinking Establishment	1,627	\$381,248.30
Food Establishment	1015	\$303,587.92
Hotel/Motel	104	\$29,933.49
Institutional Facility	121	\$51,054.99
Laundry and Dry-Cleaning Establishment	78	\$22,693.32
Public Swimming Pool	101	\$30,552.49
Solid Waste	1	\$290.00
<b>TOTAL</b>	<b>3,261</b>	<b>\$879,274.68</b>

**Table 7. Sanitary Permits issued by the Division of Environmental Health in FY 2017.** (\*Includes new, renewal, temporary, and duplicate.)



**Figure 1. Distribution (%) by Category of Sanitary Permits issued by Division of Environmental Health in FY 2017.**

# ACCOMPLISHMENTS

## HEALTH CERTIFICATES

A total of 37,893 Health Certificates (**Table 8**) were processed and issued by the Division in FY 2017. This resulted in \$304,567.00 in generated revenue, which was \$7,747.70 more than what was collected in FY 2016, an increase of 2.6%. There was a significant reduction in the number of Temporary Health Certificates issued in FY 2017 (328) compared to FY 2016 (916), which is a decrease of 64.2%. The number of Health Certificates issued for Manager's Certification during the fiscal year increased by 28%, from 75 to 96. Increased enforcement by DEH of this requirement for all food facilities may explain the greater number this year compared to the previous year.

HEALTH CERTIFICATE ISSUANCE		
Type	Number of Issuances	Revenue
New	918	\$9,180.00
Interim	12,762	\$124,829.00
New Manager's Certification	96	\$960.00
<sup>1</sup> Renewal	16,277	\$163,440.00
<sup>2</sup> Passed Workshop Exam	5,949	\$0.00
Failed Workshop Exam	812	\$0.00
<sup>2</sup> Written Agreement	144	\$0.00
Amendment	6	\$30.00
<sup>3</sup> Temporary	328	\$4,890.00
Re-Issuance	601	\$1,238.00
<b>TOTAL</b>	<b>37,893</b>	<b>\$304,567.00</b>

**Table 8. Health Certificates issued by the Division of Environmental Health in Fiscal Year 2017.**

<sup>1</sup>Includes certificates for all categories. <sup>2</sup>No fees are charged for these types of certificates. <sup>3</sup>Only for Eating & Drinking Establishments and Food Establishments.

## DISINTERMENT AND DISINTERMENT - REINTERMENT CLEARANCES

DEH approved 23 Requests for Disinterment and 10 for Disinterment-Reinterment (DR) (**Table 9**). This was 11 more requests for Disinterment than in FY 2016, and two more requests for DR. Overall, FY 2017 saw 13 more requests than FY 2016. Disinterment involves the removal of remains from a grave or tomb for disposition at another location; DR occurs when the remains are replaced in the original grave or tomb, often with a second set of remains, such as husband and wife.

DISINTERMENT and DISINTERMENT/REINTERMENT ISSUANCE			
Category	No.	From	To:
Disinterment	9	Carmelite Monastery	Pigo Cemetery
	1	Guam Memorial Park	Guam Memorial Park
	1	Guam Veterans	Guam Veterans
	1	Holy Cross Catholic Cemetery	Pigo Cemetery
	1	Holy Cross Catholic Cemetery (Togcha)	Guam Memorial Park
	1	Pigo Cemetery	Our Lady of Peace
	1	Pigo Cemetery	Ada's Crematorium
	6	Pigo Cemetery	Pigo Cemetery
	1	Pigo Cemetery	Guam Windward Memorial
Disinterment/ Re-interment	1	V.A. Limtiaco Cemetery (Tiguac)	Guam Veterans
	1	Guam Memorial Park	N/A
	2	Holy Cross Cemetery (Togcha)	N/A
	2	Mt. Carmel	N/A
	4	Pigo Cemetery	N/A
1	V.A. Limtiaco Cemetery (Tiguac)	N/A	

**Table 9. Disinterment and Disinterment-Reinterment approvals issued by the Division of Environmental Health in FY 2017.**



# ACCOMPLISHMENTS

## *CONTROLLED SUBSTANCES REGISTRATION CERTIFICATES*

Five hundred eighty-four (584) Guam Controlled Substances Registration (GCSR) Certificates were issued in FY 2017 (**Table 10**), 38 more than what was issued in FY 2016. The revenue collected this fiscal year (\$77,370) was \$5,150 (7.1%) more than what was collected in FY 2016. In FY 2017, 67% of the GCSRs were issued to medical doctors (MD), followed by dentists (DDS and DMD) at 10%. Pharmacies made up 4.8% of all registrants.

CONTROLLED SUBSTANCES REGISTRATION ISSUANCE							
Category	Number of CSR Issued					Number of CSR Issued Per-Category	Revenue
	New	Renewal	Exemption	Amendment/Temporary	Re-Issuance		
Advanced Practice Nurse/Nurse Practitioner	13	21	0	0	0	34	\$4,680.00
Doctor of Dental Medicine (DMD)	0	10	0	1	1	12	\$1,320.00
Doctor of Dental Science (DDS)	10	36	0	0	0	46	\$6,180.00
Doctor of Medicine (MD)	98	263	0	27	3	391	\$51,810.00
Doctor of Osteopathic Medicine (DO)	10	10	0	2	0	22	\$2,950.00
Doctor of Veterinary Medicine (DVM)	4	7	0	2	0	13	\$1,430.00
Doctor of Podiatric Medicine (DPM)	0	6	0	1	0	7	\$790.00
Physician's Assistant (PA)	2	14	0	1	0	17	\$2,000.00
Animal Shelter	0	1	0	0	0	1	\$130.00
Hospital	0	3	0	0	0	3	\$390.00
Clinic	0	5	0	0	0	5	\$670.00
Researcher	0	1	0	0	0	1	\$130.00
Pharmacy	1	26	0	1	0	28	\$4,090.00
Wholesale	0	4	0	0	0	4	\$800.00
<b>TOTAL</b>	<b>138</b>	<b>407</b>	<b>0</b>	<b>35</b>	<b>4</b>	<b>584</b>	<b>\$77,370.00</b>

**Table 10. Controlled Substances Registrations issued by the Division of Environmental Health in FY 2017.**

## *ADMINISTRATIVE PENALTIES*

In FY 2017, there were 8 cases processed for an administrative penalty by the Division (**Table 11**). A total of \$1,800 in fines was collected from establishments that had employed individuals who did not possess valid Health Certificates while working in these regulated establishments. This was an increase of two cases and \$800 in monetary fees collected. Most violations originated from Cosmetic Establishment category, followed by Food Establishment category, and the Child Care Establishment category. All funds collected from administrative penalties were deposited into the General Fund, as required by law.

One administrative penalty remained pending for collection and was carried over into FY 2018. Another case, The Giving Tree Early Learning Center, requested a hearing, which was scheduled for October 2016 (FY 2017).

## *CONSUMER COMMODITIES*

The Consumer Commodities Program (CCP) of DEH responded to all detainments made by the Guam Customs and Quarantine Agency (GCQA) at the island's ports of entry. A total of 14 detainments were examined this fiscal year (**Table 12**); this was four fewer detainment reviews than FY 2016, a decrease of 22.2%. DEH did not conduct any active enforcement at retail establishments because of other competing priorities and limited resources.

# ACCOMPLISHMENTS

<b>ADMINISTRATIVE PENALTY ASSESSMENTS</b>				
<b>No.</b>	<b>Establishment</b>	<b>Category</b>	<b>Amount Assessed</b>	<b>Amount Collected</b>
1	The Giving Tree Early Learning Center	Child Care Establishment	\$200	\$200
2	Hair City	Cosmetic Establishment	\$200	\$200
3	Mariacy Academy	Cosmetic Establishment	\$200	\$200
4	Tony and Son Barber Shop	Cosmetic Establishment	\$200	\$200
5	Hair Signature	Cosmetic Establishment	\$200	\$200
6	Little Garden Day Care	Child Care Establishment	\$200	\$200
7	San Jose Supermarket	Food Establishment	\$400	\$400
8	American Bakery	Food Establishment	\$200	\$200
<b>TOTAL MONETARY FEES COLLECTED</b>				<b>\$1,800</b>

**Table 11. Administrative penalties processed by the Division of Environmental Health in FY 2017.**

<b>CONSUMER COMMODITIES</b>		
<b>Number of FOOD Inspections and Investigations</b>		
Commercial Importation Cases	5	
Personal Importation Cases	0	
Retail "Tagging" Cases	0	
<b>Subtotal</b>	<b>5</b>	
<b>Number of DRUG Inspections and Investigations</b>		
Commercial Importation Cases	8	
Personal Importation Cases	0	
Retail "Tagging" Cases	0	
<b>Subtotal</b>	<b>8</b>	
<b>Number of COSMETIC Inspections and Investigations</b>		
Commercial Importation Cases	3	
Personal Importation Cases	0	
Retail "Tagging" Cases	0	
<b>Subtotal</b>	<b>3</b>	
<b>Number of MEDICAL DEVICE Inspections and Investigations</b>		
Commercial Importation Cases	0	
Personal Importation Cases	0	
Retail "Tagging" Cases	0	
<b>Subtotal</b>	<b>0</b>	
<b>Number of HAZARDOUS SUBSTANCE Inspections and Investigations</b>		
Commercial Importation Cases	2	
Personal Importation Cases	0	
Retail "Tagging" Cases	0	
<b>Subtotal</b>	<b>2</b>	
<b>Number of MULTIPLE CATEGORY Inspections and Investigations</b>		
Commercial Importation Cases	5	
Personal Importation Cases	0	
Retail "Tagging" Cases	0	
<b>Subtotal</b>	<b>5</b>	
<b>GRAND TOTAL</b>		<b>27</b>

**Table 12. Number of inspections and investigations of regulated consumer commodities conducted by the Division of Environmental Health in FY 2017.**

## **FOOD**

Five of the 27 total detainments received from Guam Customs and Quarantine Agency in FY 2017 involved food items that included herbal powders, teas, juices, vitamins, coffee beans, flours, and

## ACCOMPLISHMENTS

spices. A total of 484 pieces of food (110) and food/drug (374) commodities were detained in the fiscal year.

Of the five food-related detained shipments, four were commercial importations, and one was for personal use. The commercial consignees were HME (Chang Chong), DLA Feed Store (Bienvenido Pareja Gamboa), Victorio Acaín Soriano, and JunivCorp (Valencia Wholesale and Retail). These detainments originated from the Philippines and South Korea. Of the six detained shipments, five were forfeitures, and one is carried over into FY 2018.

There were 51 total voluntary recalls by the U.S. Food and Drug Administration, and the U.S. Department of Agriculture for food commodities that were acted upon by DEH this fiscal year (**Table 13**). Of these recalls, a total of 1,385 pieces of recalled food items were found on island of which 483 were removed from store shelves while the remaining 902 were sold on island. No deaths or injuries were reported to DEH that were linked to any of the recalled items.

Active inspection of food products at retail establishments was not performed this fiscal year due to lack of staff and resources.

Voluntary Recalls by US Food and Drug Administration - FY 2017													
USFDA	No. of Recalls Acted Upon	Type of Activity Conducted							Findings				
		Email	Fax	Hand Delivered	Phone Calls	Inspections	Tag (No. Pieces)	Press Release Issued	No. On Island	Accounted	Removed	Sold	Returned
Food	43	1,618	0	0	1	0	0	5	1,385	1,385	483	902	0
Drug	12	441	0	1	0	0	0	1	16	16	1	15	0
Cosmetic	0	0	0	0	0	0	0	0	0	0	0	0	0
Medical Device	6	166	0	1	0	0	0	1	1	1	0	1	0

Voluntary Recalls by US Dept. of Agriculture - FY 2017													
USDA	No. of Recalls Acted Upon	Type of Activity Conducted							Findings				
		Email	Fax	Hand Delivered	Phone Calls	Inspections	Tagged (No. Pieces)	Press Release Issued	No. On Island	Accounted	Removed	Sold	Returned
Food	8	292	0	0	0	0	0	0	0	0	0	0	0

**Table 13. Voluntary recalls by U.S. Food and Drug Administration and U.S. Department of Agriculture acted upon by the Division of Environmental Health in FY 2017.**

### DRUG

Eight of the 27 total detentions by GCQA in FY 2017 were drug products or a combination of drug/food or drug/cosmetic commodities. These detainments included whitening soaps and lotions, sulfur soaps, glutathione formulations, facial cream, facial toner, cleansers, slimming teas, hair dyes, skin whiteners, human medications, and animal/veterinary drugs such as anthelmintic. These detainments were imported from the Philippines, South Korea, Japan, and Taiwan. All detained drugs were imported for commercial use, and none were imported for personal use. A total of 10,704 pieces of drug commodities were detained, resulting in four forfeitures in FY 2017;

## ACCOMPLISHMENTS

four other cases were carried over into FY 2018. There were no releases or refusals for drug commodities in FY 2017.

There were 12 voluntary recalls for drug commodities that were acted upon by DEH this fiscal year. Of these recalls, 16 pieces of recalled drug items were found on island; 15 were sold, and one was removed from store shelves. One press release was issued:

- 04/19/17 – DEH announced a nationwide recall involving all of Standard Homeopathic Company’s “Hyland’s Baby Teething Tablets” and “Hyland’s Baby Nighttime Teething Tablets” due to a potential for adverse health effects. DEH determined that one affected product (Hyland’s Baby Teething Tablets, UPC 3-54973-31271-5) was located and removed from K-Mart in Tamuning. K-Mart confirmed that 15 affected products were sold. DEH did not receive any local report of injuries or illnesses associated with the use of the recalled commodities.

Active inspection of drug products at retail establishments was not performed this fiscal year due to lack of staff and resources.

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### ***COSMETIC***

Of the 27 detained shipments received in FY 2017 from GCQA, three detentions were cosmetics or drug/cosmetics. The cosmetic products included eyewash; whitening soaps and lotions; sulfur soaps; glutathione formulations; facial cream, toner, and cleansers; slimming teas; hair dyes; skin whiteners; eyelash perming lotion; exfoliants; and pore strips.

All cosmetic detentions were commercial importations. The consignees were SPE; THM Corporation Town Market JunivCorp (Valencia Wholesale and Retail); Anna Luz Alegre; and Jin Ah Lim. The detainments were imported from the Philippines, South Korea, Japan, and Malaysia.

A total of 10,617 pieces of cosmetic and drug/cosmetic commodities were detained. Three cosmetic-related detainment cases were carried over to FY 2018. There were no pre-importation clearances or refusals. Four forfeitures, which were commercial importations, were issued this fiscal year.

There were no recalls involving cosmetic commodities that were acted upon by DEH this fiscal year.

Active inspection of cosmetic products at retail establishments was not performed this fiscal year due to lack of staff and resources.

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### ***MEDICAL DEVICES***

There were no detentions at ports of entry by GCQA involving medical devices, and no cases were carried over to FY 2018. Additionally, there were no pre-importation clearances, releases, or refusals for such commodities. There were six recalls involving medical devices that were acted this fiscal year. One recalled item was found and sold on the island. One press release was issued for voluntary recall for medical device:

## ACCOMPLISHMENTS

- 04/11/17–DEH announced a worldwide voluntary recall of Meridian Medical Technologies’ EpiPen® Auto-Injector, select lots of EpiPen (epinephrine injection, USP), and EpiPen Jr® (epinephrine injection, USP) Auto-Injectors due to the device’s potential failure to activate as a result of a potential defect in a supplier component. The potential defect could make the device difficult to activate in an emergency and have significant health consequences for a patient experiencing a life-threatening allergic reaction. DEH determined that one affected product (EpiPen 2-Pak® Auto-Injectors, 0.3 mg, 49502-500-02, 6GM082, September 2017), was dispensed from Sagan Amot Pharmacy in Agat. No additional affected products were found on their shelves. DEH did not receive any local report of injuries or illnesses associated with the use of these recalled commodities.

Active inspection of medical device products at retail establishments was not performed this fiscal year due to lack of staff and resources.

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### **HAZARDOUS SUBSTANCES**

Two of the 27 total detained shipments received in FY 2017 from GCQA were retail hazardous substances. These shipments included toy figurines, detergents, and house and garden spray. The shipments originated from the Philippines and China; all the detained items were forfeited by the importer.

Both detained shipments were for commercial importations, one of which was forfeited and the other carried over into to FY 2018. The consignees were Devin Paciente and JunivCorp (Valencia Wholesale and Retail).

A total of 1,330 pieces of retail hazardous substance commodities were detained. There were no pre-importation clearances or refusals.

DEH did not conduct any recall checks related to hazardous substances this fiscal year.

Active inspection of retail hazardous substance products at retail establishments was not performed this fiscal year due to lack of staff and resources.

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### **CONTROLLED SUBSTANCES PROGRAM**

The passage of Public Law No. 33-184 in FY 2016 had officially rejected the draft *Rules and Regulations Governing Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013*, which DEH had developed with the assistance of the Office of the Attorney General and submitted for adoption. After the passage of P.L. 33-184, the Medical Marijuana Program (MMP) was transferred from DEH to the Division of Public Health (DPH) of DPHSS due to the potential conflict with DEH’s Controlled Substances Program (CSP). However, DEH still provided assistance to DPH in the development of the revised regulations and participation in its public hearings and stakeholder meetings.

The proposed *Rules Governing the Manufacture, Distribution, and Dispensing of Controlled Substances* that was submitted to the Office of the Attorney General (OAG) on August 7, 2015 was not acted upon by the OAG since it was initially determined that the draft proposal required revisions to coincide with the draft *Rules and Regulations Governing Joaquin (KC) Concepcion*

## ACCOMPLISHMENTS

*II Compassionate Cannabis Use Act of 2013*. However, because the medical marijuana regulations were rejected by P.L. 33-184, as noted above, the proposed *Rules Governing the Manufacture, Distribution, and Dispensing of Controlled Substances* was reviewed by OAG as originally written by DEH. OAG gave its approval to the form and format of the proposal to DEH on September 22, 2017. These regulations will be transmitted to the Office of the Governor for its approval and onward transmittal to the Legislature for adoption in FY 2018.

The matter of CSP's 2013 investigation into a local veterinarian, which resulted in the seizure of several controlled and non-controlled drugs through the execution of an Administrative Search Warrant, continued into FY 2017. During FY 2015, DEH attended several hearings at the Superior Court of Guam to witness and/or participate in the case relative to the return of the seized items. In FY 2016, the Guam Superior Court entered findings of fact, conclusions of law, and a judgment that resulted in the forfeiting of the unlawfully possessed controlled substances by the veterinarian. However, the decision was appealed to the Supreme Court of Guam by the said veterinarian. During FY 2017, the Supreme Court of Guam requested for supplemental briefings, which required DEH to attend several hearings. Final judgment was still pending at the end of FY 2017.

On April 11, 2017, and April 13, 2017, CSP inspected a retail pharmacy after receiving a complaint from the Guam Board of Examiners for Pharmacy (GBEP) of possible ethics violations. The complaint referral from the GBEP stemmed from an inspection that was previously conducted by the board of the said pharmacy on January 27, 2017, during which GBEP inspectors found the pharmacy to be operating without a registered pharmacist on duty and its subsequent voluntarily closure. DEH's investigation into this matter was completed and filed.

There were no pre-operational security inspections conducted in FY 2017.

There were no complaints received for any violations of the Uniformed Controlled Substances Act, relative to pharmaceutical controlled substances.

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### ***GUAM PRESCRIPTION DRUG MONITORING PROGRAM***

The Guam Prescription Drug Monitoring Program (PDMP) was re-awarded the 2013 Harold Rogers Prescription Drug Monitoring Grant from the U.S. Department of Justice, Office of Justice Programs Bureau of Justice Assistance in April of 2017. The awarding of the grant ended a four-year process to re-obligate the funds to the Division due to an administrative error by the federal grantor, which had erroneously issued the award to another GovGuam agency.

Additionally, the Guam PDMP was notified in September 2016 that it was a recipient of the Harold Rogers National Prescription Drug Monitoring Program Grant for Federal Fiscal Year 2016-2018. The grant will train users, fund the maintenance of the Prescription Drug Monitoring Program database, and promote physicians' usage of the database.

DEH's FY 2016 Annual Report had reported the hardware crash of the Guam PDMP's database, which resulted in the inoperability of the system for a little over six months. Since the system's return online on September 2017, fifteen thousand three hundred ninety-four (15,394) additional prescriptions were added to the database for a final count of 44,590 for FY 2017.



## ACCOMPLISHMENTS

There was an increase of 66% of new users who registered in FY 2017 compared to FY 2016. The PDMP database also saw a 170% increase of requests for prescription dispensing reports this fiscal year. This is attributed to the unavailability of the database in 2016, as previously noted, and when compared to FY 2015, the increase was only 1.3 %.

Guam PDMP on April 30, 2017, participated in the “National Prescription Drug Take Back Initiative.” The National Prescription Drug Take Back Initiative is an annual event coordinated by the Drug Enforcement Agency (DEA), and as a result of the one-day event, DEA was able to collect more than 250 pounds of expired and/or unused medications that will be properly disposed to prevent the drugs’ diversion.

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### ***HAND HYGIENE EDUCATION PROGRAM***

The Hand Hygiene Program of DEH provides an opportunity for children in primary grades in public schools to learn the importance of handwashing to prevent the spread of diseases. During the fiscal year, DEH’s Health Educator conducted 54 hours of presentations to 1,068 students at four elementary schools: B.P. Carbullido Elementary, Wettengel Elementary, L.B. Johnson Elementary, and Finegayan Elementary Schools. The presentation covered the proper handwashing technique when to wash hands, and the importance of washing one’s hands.

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### ***PILOT PROJECT: COMMUNITY – SUPPORTED SCHOOL MAINTENANCE PROGRAM***

Community-Supported School Maintenance Program concluded on September 30, 2016, and much of the work in FY 2017 focused on transcribing the data gathered from the evaluation period into a comprehensive report. However, the required deliverables from the pilot schools continued to be received during FY 2017 and eventually incorporated into the report data. In addition, DEH forwarded an evaluation questionnaire on December 30, 2017, to the participating pilot schools.

The final report of the program was completed on July 12, 2017. Copies of the comprehensive report were provided to the Guam Department of Education; Office of the Governor; and Senator Joe S. San Agustin, Assistant Majority Leader, Chairperson of Committee on Education, Finance and Taxation.

On July 19-20, 2017, DEH provided a refresher course about school sanitation to GDOE’s School Safety Liaison Team. In addition, on November 30, 2017, DEH met with GDOE for the program’s quarterly meeting.

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### ***GUARDIANS OF THE GALAXY – THE FOOD GUARDS***

In FY 2016, DEH contracted a vendor for the creation of a printed storybook and electronic activity book for educational purposes using the winning poster entries from the 10th Annual Guam Food Safety Education Month 2015. Through the direction and ideas of the Division’s Food Safety Program, the vendor created the “Food Guards” characters, which closely mirrored the characters of the winning posters. Subsequently, an 11x16 storybook was created and printed to be used during educational presentations to elementary school students. An electronic activity book was also created for student education

## ACCOMPLISHMENTS

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### ***GUAM ENVIRONMENTAL PUBLIC HEALTH EDUCATION MONTH***

DEH held its 2nd Annual Guam Environmental Public Health Education Month (GEPHEM) during the month of September with the theme, “Beauty is only skin deep, but health and safety are forever!” to focus on cosmetic safety.

The goal of FY 2017 GEPHEM was to educate the public and industry on the sanitary practices and infection control in beauty, barber, and nail salons through the use of social media (Facebook, Instagram, and Twitter), television commercials, and movie theaters. In addition, educational brochures and posters were distributed to cosmetic establishments throughout the island. The Department issued Press Release No. 2017-067 on August 10, 2017, announcing the “Second Annual Guam Environmental Public Health Education Month 2017.”

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### ***2017 MICRONESIAN ISLAND FAIR***

The Guam Micronesian Island Fair is an annual cultural event hosted by the Guam Visitors’ Bureau (GVB) for the purpose of showcasing cultures of Micronesia. The annual event has been held for the past 30 years. In FY 2017, the event extended from the usual three days to five consecutive days, which increased the requirements in obtaining a Sanitary Permit from DEH. As a result of the extension, a full enclosure was required for all temporary food service establishments (TFSE) serving at the event to address potential food safety hazards associated with inclement weather and other environmental conditions at these types of event. A waiver request from GVB for the full enclosure requirement was approved by DPHSS; however, it was with the understanding that DEH would increase compliance monitoring and that the waiver will be rescinded if food contamination was observed. DEH staff worked 10- to 12-hour shifts, along with regular work office and other inspection duties, in monitoring the 27 TFSE and six mobile service establishments.

It is significant to note that it was at the 2017 Micronesian Island Fair that DEH first implemented the use of the “TFSE Acknowledgement Form” as a regulatory tool in enforcing the requirements of the Guam Food Code. The document provides list of requirements, and consequences, relevant to food safety that each vendor had to personally read and acknowledge via his/her initials. The use of this form not only reminded the vendors of their food safety responsibilities but also of their acknowledgment that specific enforcement actions would be taken by DEH when necessary. No foodborne illness was reported to DEH that was linked to the Fair.

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### ***HEALTH – REGULATED ESTABLISHMENTS***

In FY 2017, the Processing Center Section processed and issued 3,261 Sanitary Permits to various health-regulated establishments, while the Bureau of Inspection and Enforcement (BIE) recorded 3,076 permitted establishments. The differing number of Sanitary Permits issued and the number of establishments on file occurred because there can be multiple permits issued to the same establishment during one fiscal year, such as the issuance of a new and a temporary renewal permit for the same vendor of a temporary event (i.e., Chamorro Village Wednesday Night Market).

The Division conducted 1,061 (an increase of 1.6% from the previous fiscal year) inspections, which includes follow-up inspections, in FY 2017. Legislative mandate requires DEH to inspect each establishment once every three months, which was not possible during the fiscal year due to a lack of personnel. The Division’s inability to conduct approximately 12,304 routine inspections in FY 2017 forced DEH to prioritize its inspections. Establishments categorized as high priority

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## ACCOMPLISHMENTS

(such as those catering to high-risk populations, including temporary food establishments) were inspected on multiple occasions during the year. Graphical presentations of sanitation inspection data for Fiscal Year 2017 are provided in **Figures 2 - 4**.

The “Assessment” inspections, as shown in **Figure 3**, are evaluations that are usually conducted by DEH to determine the compliance status of an establishment and does not result in the issuance of a letter grade. Less than 3% of all inspections conducted in FY 2017 were assessments without letter grade issuance. This was a result of visits to facilities requesting for follow-up inspections that were determined to be still non-compliant during the inspection. Majority of these establishments, such as food stall stands, were assessed after their Sanitary Permits were suspended due to imminent health hazards, such as pest infestation, or receiving a “D” rating. A large part of assessment activities involved evaluating facilities in determining if the pest infestation was still ongoing. As presented in **Figure 4**, 29% of establishments that received no letter grade were due to assessments or situations where a letter grade is not given.

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### ***FOOD FACILITIES***

There was a total of 2,642 Sanitary Permits issued to food facilities (Eating and Drinking Establishments and Food Establishments) in FY 2017 by the Processing Center Section, which was almost four times (2,642 vs. 619) the number issued for all other categories combined, and comprised 81% of all health-regulated establishments permitted by DEH. Food facilities were given higher priorities over other regulated establishments by DEH for sanitation inspections because of the greater potential for disease outbreaks to originate from these establishments.

There was no foodborne illness outbreak linked to any regulated food facility reported to DEH in FY 2017.

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### ***EATING AND DRINKING ESTABLISHMENTS***

Eating and Drinking Establishment (E&DE) category had the greatest number of permits issued among food facilities in FY 2017 with 1,627, which comprised 49.9% of all Sanitary Permits issued during the fiscal year. E&DE was also the most inspected during the fiscal year (**Table 14, Figure 5**). The 485 inspections of this category made up 45.7% of all inspections conducted.

Temporary Food Service Establishments was the most inspected subcategory of Eating and Drinking Establishments during the year with 253 inspections conducted, which represented 52.1% of all inspections within the category. This was followed by restaurants with 85 inspections (17.5%), and food stall stands with 67 inspections (13.8%).

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### ***FOOD ESTABLISHMENTS***

There were 1,015 Sanitary Permits issued for Food Establishments (FE) in FY 2017, and a total of 66 inspections were performed by DEH in this category (**Table 15, Figure 6**), which was a 7.8% increase from the previous year (47). Fifty-six-point one percent (56.1% or 37) of FE inspections were of retail establishments. This was followed by manufacturers, which represented 15.2% of the retail establishment inspections, followed by bakeries with 10.6%

DISTRIBUTION OF SANITATION INSPECTIONS

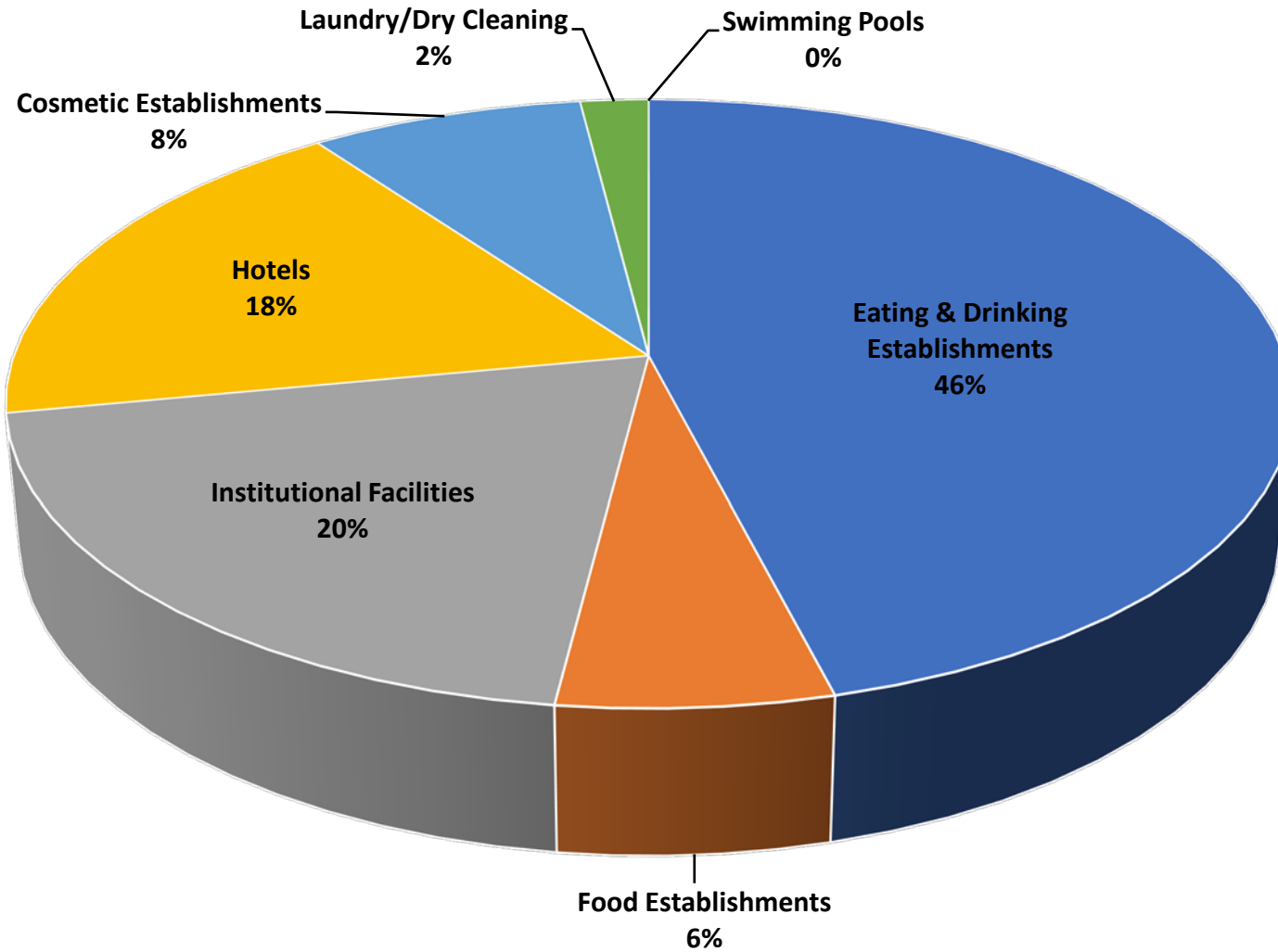


Figure 2: Distribution (%) of sanitation inspections of regulated establishments by the Division of Environmental Health in FY 2017.

TYPES OF SANITATION INSPECTIONS

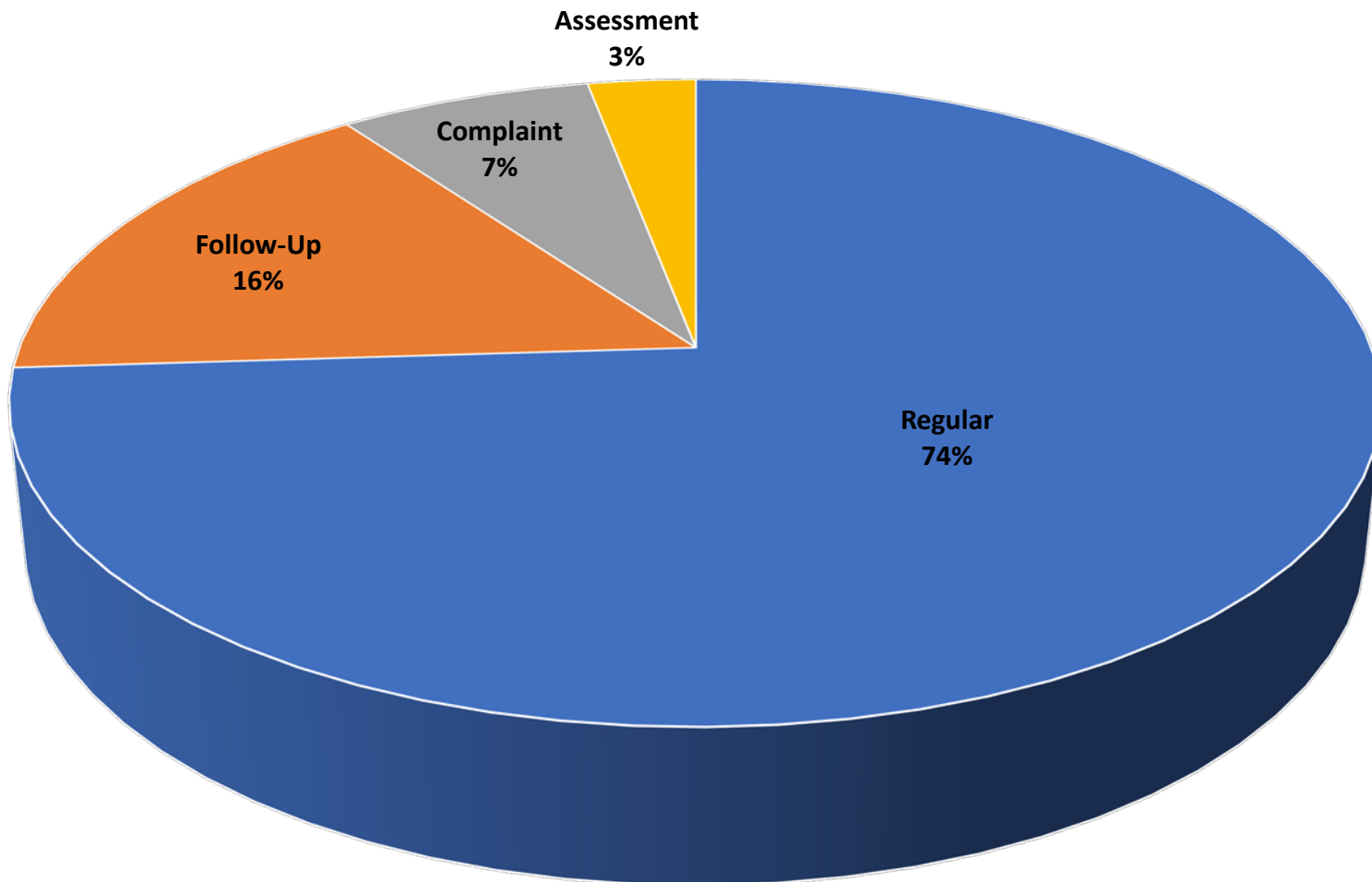


Figure 3. The types (%) of sanitation inspections conducted by the Division of Environmental Health in FY 2017.

INSPECTION LETTER GRADE INSSUANCES

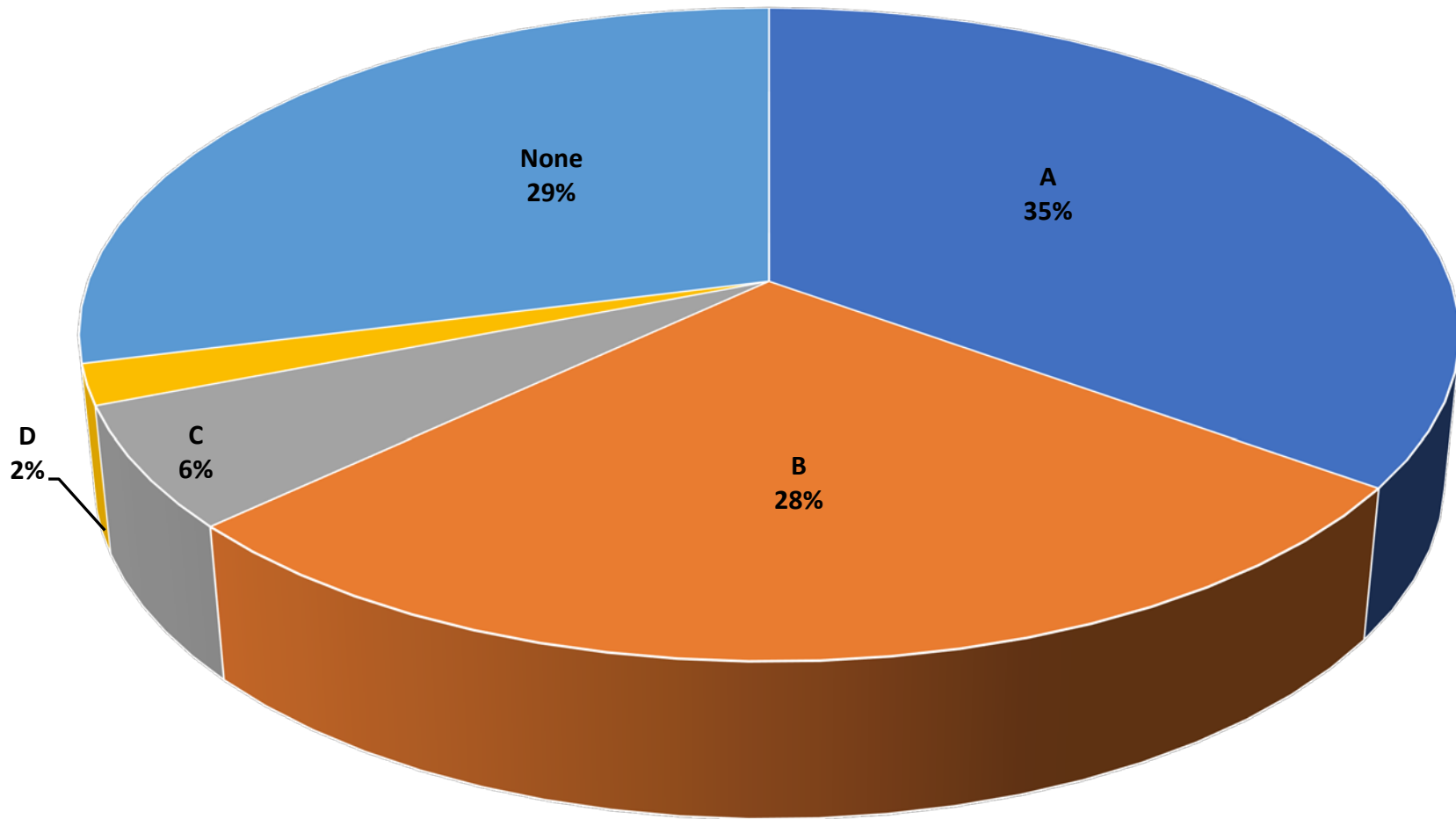


Figure 4. The inspection grades (%) issued to regulated establishments by the Division of Environmental Health in FY 2017.



# ACCOMPLISHMENTS

Eating & Drinking Establishment	Number of Est. in Category	Total Number of Est. Inspected	% of Est. Inspected	Total Number of Inspections Conducted	Types of Inspections					Letter Grade Issued					Number of Investigations Conducted	Number of Est. Closures
					Number of Regular	Number of Follow-Up	Number of Complaint	Assessments	Other	A	B	C	D	None		
Restaurant	475	52	11%	85	18	38	27	2	0	44	10	21	7	3	1	7
Bar	138	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Café	4	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional Cafeteria	14	6	43%	22	18	4	0	0	0	20	2	0	0	0	0	0
Catering	43	1	2%	5	4	4	1	0	0	4	0	0	0	0	0	0
Coffee Shop	50	6	12%	8	3	0	1	0	0	40	4	0	0	0	0	0
D.O.C. Cafeteria	1	0	0%	0	0	3	0	0	0	3	0	0	0	0	0	0
Drink Stand	26	2	8%	5	1	1	1	0	0	0	2	0	0	0	0	0
In Plant Employee Eating Establishment	12	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Lunch Room	1	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Main Kitchen	1	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobile Food Service Establishment	92	0	0%	0	0	0	0	0	0	32	5	0	0	0	0	0
School Cafeteria	51	32	63%	37	31	5	1	0	0	0	0	0	0	0	0	0
Sandwich Stand	1	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Short Order Establishment	23	0	0%	0	0	0	0	0	0	2	1	0	0	0	0	0
Soda Fountain	18	2	11%	3	2	1	0	0	0	30	5	0	0	0	0	0
Stall Stand	95	31	33%	67	22	20	9	16	0	0	0	7	3	22	0	3
Tavern	31	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Temporary Food Service Establishment	365	175	48%	253	253	0	0	0	0	0	0	0	0	253	0	0
Vending-Beverage Stand	81	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Vending-Food Stand	23	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL:</b>	<b>1545</b>	<b>307</b>	<b>20%</b>	<b>485</b>	<b>352</b>	<b>75</b>	<b>40</b>	<b>18</b>	<b>0</b>	<b>139</b>	<b>29</b>	<b>28</b>	<b>10</b>	<b>279</b>	<b>1</b>	<b>14</b>

**Table 14. Number of sanitation inspections and investigations of Eating and Drinking Establishments conducted by the Division of Environmental Health in FY 2017.**

# ACCOMPLISHMENTS

Retail Food Establishment	Number of Est. in Category	Total Number of Est. Inspected	% of Est. Inspected	Total Number of Inspections Conducted	Types of Inspections					Letter Grade Issued					Number of Investigations Conducted	Number of Est. Closures
					Number of Regular	Number of Follow-Up	Number of Complaints	Assessment	Other	A	B	C	D	None		
Bakery	51	8	16%	7	0	3	4	0	0	4	2	0	1	0	0	1
Beverage Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bottling Plant	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Creamery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delicatessen	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish Processing	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Food Warehouse	134	6	4%	8	0	1	3	4	0	2	1	1	0	4	0	0
Fruit/Vegetable Market	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ice Cream/Frozen Dessert Plant	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ice Plant	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manufacturer	245	4	2%	10	5	1	4	0	0	6	4	0	0	0	0	0
Processing Plant	6	3	50%	4	2	1	1	0	0	2	0	1	0	1	0	1
Poultry Processing	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Market	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retail	492	30	6%	37	9	14	11	3	0	22	5	5	3	2	0	3
<b>TOTAL:</b>	<b>952</b>	<b>51</b>	<b>5%</b>	<b>66</b>	<b>16</b>	<b>20</b>	<b>23</b>	<b>7</b>	<b>0</b>	<b>36</b>	<b>12</b>	<b>7</b>	<b>4</b>	<b>7</b>	<b>0</b>	<b>5</b>

Table 15. Number of sanitation inspections of Food Establishments conducted by the Division of Environmental Health in FY 2017.

## EATING AND DRINKING ESTABLISHMENTS

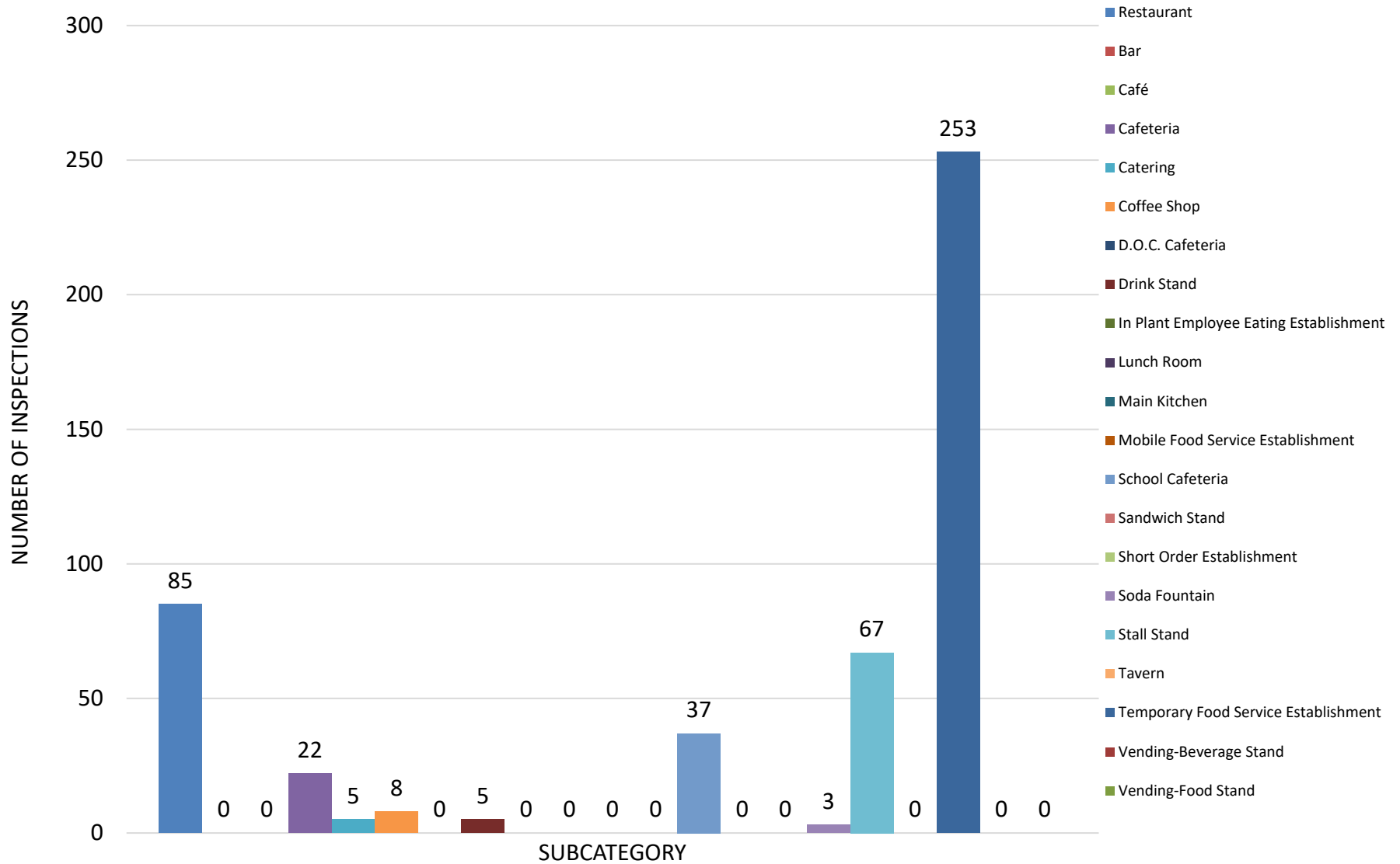


Figure 5. Number of sanitation inspections conducted of Eating and Drinking Establishments by the Division of Environmental Health in FY 2017.

## FOOD ESTABLISHMENTS

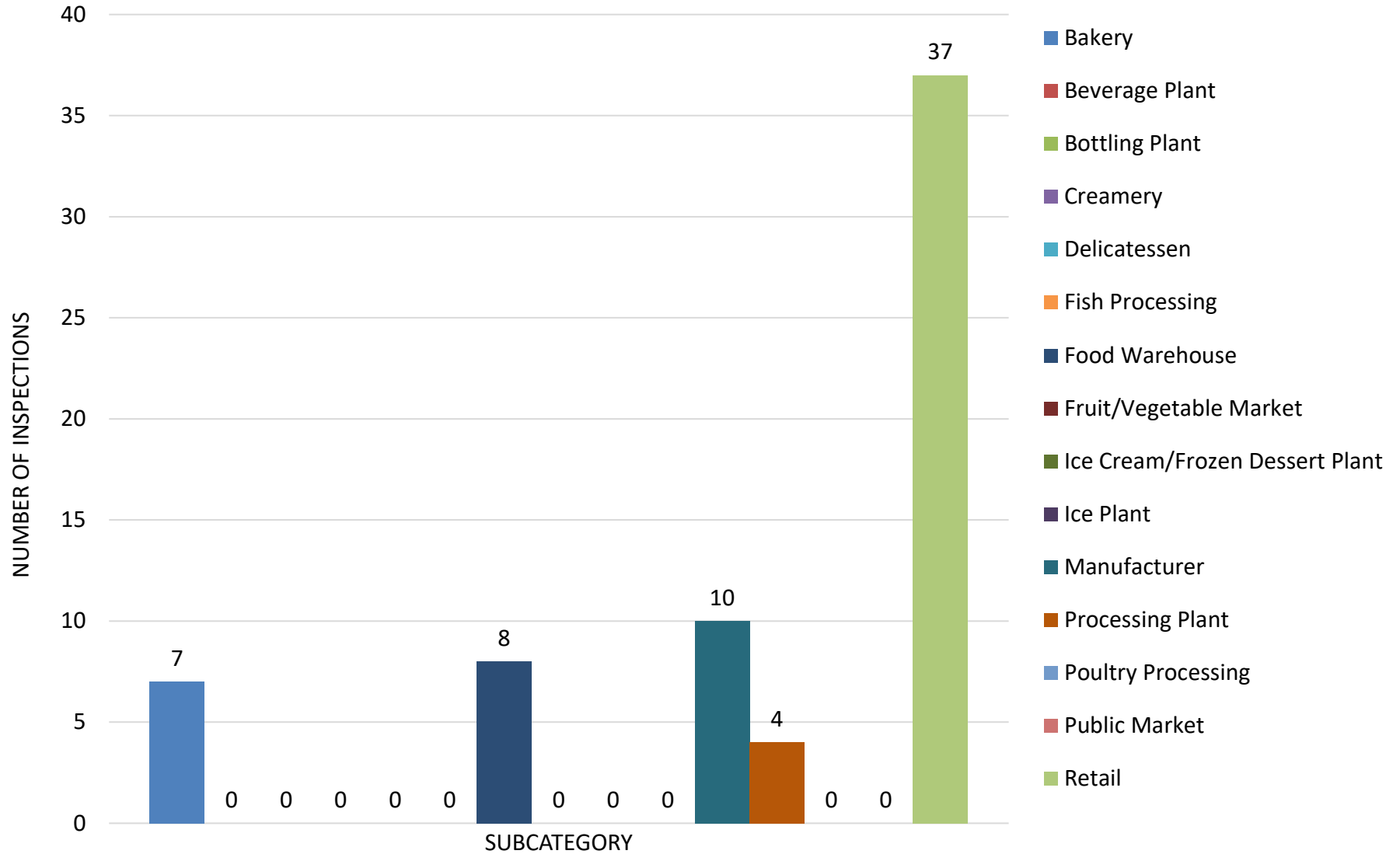


Figure 6. Number of sanitation inspections conducted of Food Establishments by the Division of Environmental Health in FY 2017.

# ACCOMPLISHMENTS

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## *NON-FOOD FACILITIES*

Non-food facilities regulated by the Division of Environmental Health include Institutional Facilities, Hotels/Motels, Cosmetic Establishments, Laundry/Dry Cleaners, Swimming Pools, and Mortuaries. Collectively, 619 Sanitary Permits were issued to these 573 establishments in FY 2017, with 510 inspections conducted of 178 establishments. This is an increase of 49% from FY 2016 in the number of inspections conducted for non-food facilities.

Institutional Facilities (40.8% of all non-food facility inspections) were inspected the most in this category during the fiscal year. This was followed by Hotel Establishments (38.4%) and Cosmetology Establishments (16.3%). See **Tables 16-21** and **Figures 7-11** for complete inspection data of non-food establishments for FY 2017.

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## *INSTITUTIONAL FACILITIES*

Childcare centers (76.4% of all institutional facility inspections), home daycare (9.1%), juvenile detention center (7.7%), and family and group foster homes (6.7%) were inspected the most by the Division within the category of Institutional Facilities (**Table 16, Figure 7**). These establishments were inspected multiple times in FY 2017 as a result of the high priority given by DEH and the Bureau of Social Services Administration (BOSSA) of the Division of Public Welfare, which funds one DEH personnel to inspect childcare facilities.

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## *HOTEL/MOTEL SANITATION*

DEH performed 196 inspections within the Hotel/Motel category in FY 2017 (**Table 17, Figure 8**). The majority of these inspections were for Temporary Workforce Housing (Dormitory) (98%). Temporary Workforce Housing program is one of few programs of DEH that is fully funded by one staff conducting inspections.

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## *COSMETIC ESTABLISHMENTS*

Beauty salons and therapeutic massage establishments within the Cosmetic Establishment category received a total of 83 inspections in FY 2017 (**Table 18, Figure 9**). The majority of these inspections were for beauty salons (53%). This was followed by therapeutic massage (16.9%), beauty and barber (14.5%), and barber shops (12%).

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## *LAUNDRY AND DRY-CLEANING ESTABLISHMENTS*

Low priority was given for the inspections of laundries and dry cleaners. DEH performed a total of 18 inspections within the Laundry and Dry-Cleaning category (**Table 19, Figure 10**).

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## *PUBLIC SWIMMING POOLS*

Low priority was given for the inspections of public swimming pools. DEH performed a total of five inspections within the Public Swimming Pool category (**Table 20 and Figure 11**).

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## *EDIBLE GARBAGE FEEDING ESTABLISHMENT*

There was one permitted establishment in this category in FY 2017, which was not inspected during the fiscal year, see **Table 21**.

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# ACCOMPLISHMENTS

Institutional Facilities	*Number of Est. in Category	Total Number of Est. Inspected	% of Est. Inspected	Total Number of Inspections Conducted	Types of Inspections				Letter Grade Issued					Number of Investigations Conducted	Number of Est. Closures
					Number of Regular	Number of Follow-Up	Number of Complaints	Other	A	B	C	D	None		
Child Care Center/Nursery	38	38	100%	159	149	8	2	0	147	10	0	0	2	0	0
Family Day Care Home	5	4	80%	19	18	1	0	0	18	0	1	0	0	0	0
Group Day Care Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Foster Home	4	4	100%	14	14	0	0	0	13	1	0	0	0	0	0
Juvenile Detention Center	67	4	6%	16	16	0	0	0	14	2	0	0	0	0	0
Detention Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Correction Facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adult Day Care Center	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mental Health Units	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursing Home	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total:</b>	<b>117</b>	<b>50</b>	<b>43%</b>	<b>208</b>	<b>197</b>	<b>9</b>	<b>2</b>	<b>0</b>	<b>192</b>	<b>13</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>

\*The "Number of Establishments in Category" figure is calculated at the end of the fiscal year. During the year, day care establishments open and close for business, and inspections are conducted each quarter, which results in this table showing inspections for establishments which have closed during the year and are not included in the total, and in percentages greater than 100% in the "% of Establishments Inspected" column.

**Table 16. Number of sanitation inspections and investigations of Institutional Facilities conducted by the Division of Environmental Health in FY 2017.**



# ACCOMPLISHMENTS

Hotel	Number of Est. in Category	Total Number of Est. Inspected	% of Est. Inspected	Total Number of Inspections Conducted	Types of Inspections				Letter Grade Issued					Number of Investigations Conducted	Number of Est. Closures
					Number of Regular	Number of Follow-Up	Number of Complaints	Other	A	B	C	D	None		
Hotel	36	2	6%	3	0	1	2	0	0	0	0	0	3	0	0
Dormitory	56	52	93%	192	159	33	0	0	127	35	27	3	0	0	0
Motel	2	1	50%	1	1	0	0	0	0	0	0	0	1	0	0
<b>TOTAL:</b>	<b>94</b>	<b>55</b>	<b>59%</b>	<b>196</b>	<b>160</b>	<b>34</b>	<b>2</b>	<b>0</b>	<b>127</b>	<b>35</b>	<b>27</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>0</b>

**Table 17. Number of sanitation inspections and investigations of Hotel Establishments conducted by the Division of Environmental Health in FY 2017.**

Cosmetic Establishment	Number of Est. in Category	Total Number of Est. Inspected	% of Est. Inspected	Total Number of Inspections Conducted	Types of Inspections				Letter Grade Issued					Number of Investigations Conducted	Number of Est. Closures
					Number of Regular	Number of Follow-Up	Number of Complaints	Other	A	B	C	D	None		
Cosmetology School	1	1	100%	3	0	1	2	0	1	2	0	0	0	0	0
Barber Shop	11	5	45%	10	5	5	0	0	3	4	2	1	0	0	0
Beauty & Barber	13	8	62%	12	8	4	0	0	9	2	1	0	0	0	1
Beauty Salon	84	31	37%	44	28	13	3	0	30	10	3	0	1	0	0
Massage Parlor	0	0	0%	0	0	0	0	0	0	0	0	0	0	0	0
Therapeutic Massage Establishment	68	8	12%	14	8	6	0	0	8	5	1	0	0	0	0
Tattoo Shop	14	0	0%	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL:</b>	<b>191</b>	<b>52</b>	<b>28%</b>	<b>83</b>	<b>49</b>	<b>29</b>	<b>5</b>	<b>0</b>	<b>51</b>	<b>23</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>

**Table 18. Number of sanitation inspections and investigations of Cosmetic Establishments conducted by the Division of Environmental Health in FY 2017.**

# ACCOMPLISHMENTS

Laundry/Dry Cleaning	Number of Est. in Category	Total Number of Est. Inspected	% of Est. Inspected	Total Number of Inspections Conducted	Types of Inspections				Letter Grade Issued					Number of Investigations Conducted	Number of Est. Closures
					Number of Regular	Number of Follow-Up	Number of Complaints	Other	A	B	C	D	None		
Dry Cleaning	18	2	11%	2	1	1	0	0	1	1	0	0	0	0	0
Public Laundry	51	14	27%	16	13	3	0	0	16	0	0	0	0	0	0
<b>TOTAL:</b>	<b>69</b>	<b>16</b>	<b>23%</b>	<b>18</b>	<b>14</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Table 19. Number of sanitation inspections and investigations of Dry Cleaning and Laundry Establishments conducted by the Division of Environmental Health in FY 2016.**

Swimming Pool	Number of Est. in Category	Total Number of Est. Inspected	% of Est. Inspected	Total Number of Inspections Conducted	Types of Inspections				Letter Grade Issued					Number of Investigations Conducted	Number of Est. Closures
					Number of Regular	Number of Follow-Up	Number of Complaints	Other	A	B	C	D	None		
Public Swimming Pool	90	4	4%	4	0	0	1	3	0	0	0	0	4	0	0
Wading Pool	11	1	9%	1	0	0	0	1	0	0	0	0	1	0	0
<b>TOTAL:</b>	<b>101</b>	<b>5</b>	<b>5%</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>

**Table 20. Number of sanitation inspections and investigations of Swimming Pools conducted by the Division of Environmental Health in FY 2017.**

Solid Waste	Number of Est. in Category	Total Number of Est. Inspected	% of Est. Inspected	Total Number of Inspections Conducted	Types of Inspections				Letter Grade Issued					Number of Investigations Conducted	Number of Est. Closures
					Number of Regular	Number of Follow-Up	Number of Complaints	Other	A	B	C	D	None		
Edible Garbage Feeding Establishment	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table 21. Number of inspections and investigations conducted of Edible Garbage Feeding Establishments conducted by the Division of Environmental Health in FY 2017.**

## INSTITUTIONAL FACILITIES

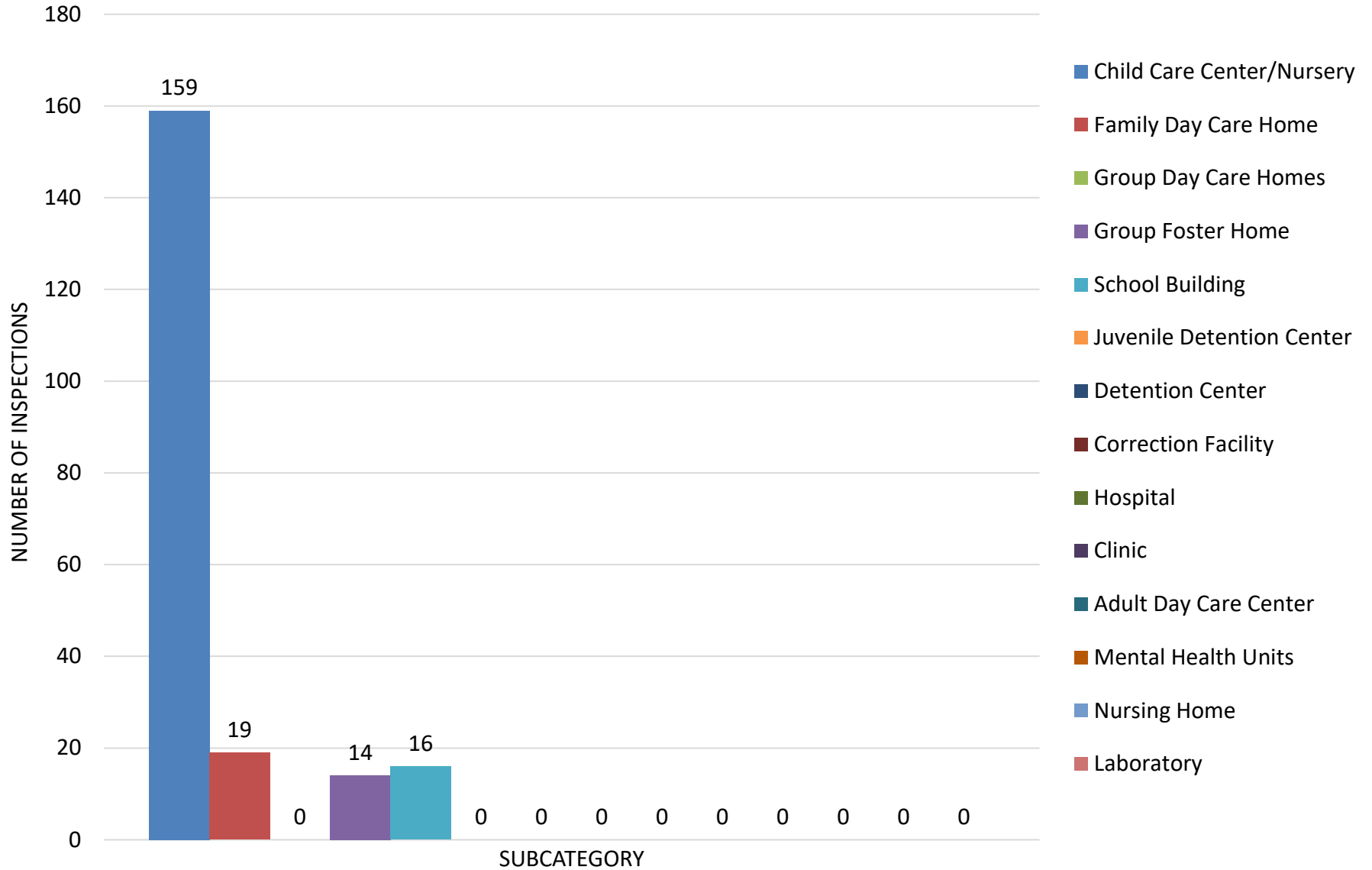


Figure 7. Number of sanitation inspections conducted of Institutional Facilities by the Division of Environmental Health in FY 2017.

HOTEL ESTABLISHMENTS

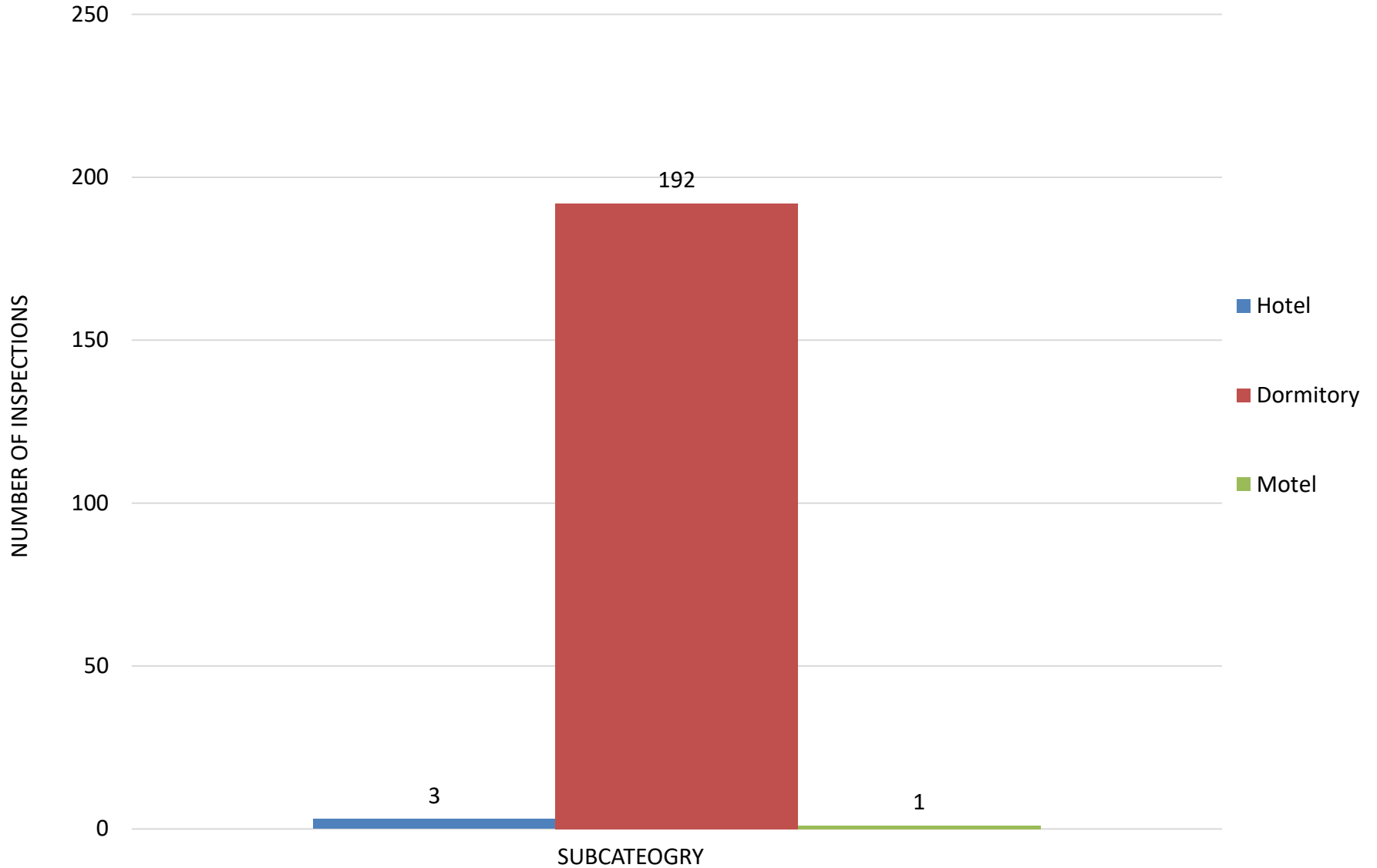


Figure 8. Number of sanitation inspections conducted of Hotel Establishments by the Division of Environmental Health in FY 2017.

COSMETOLOGY ESTABLISHMENTS

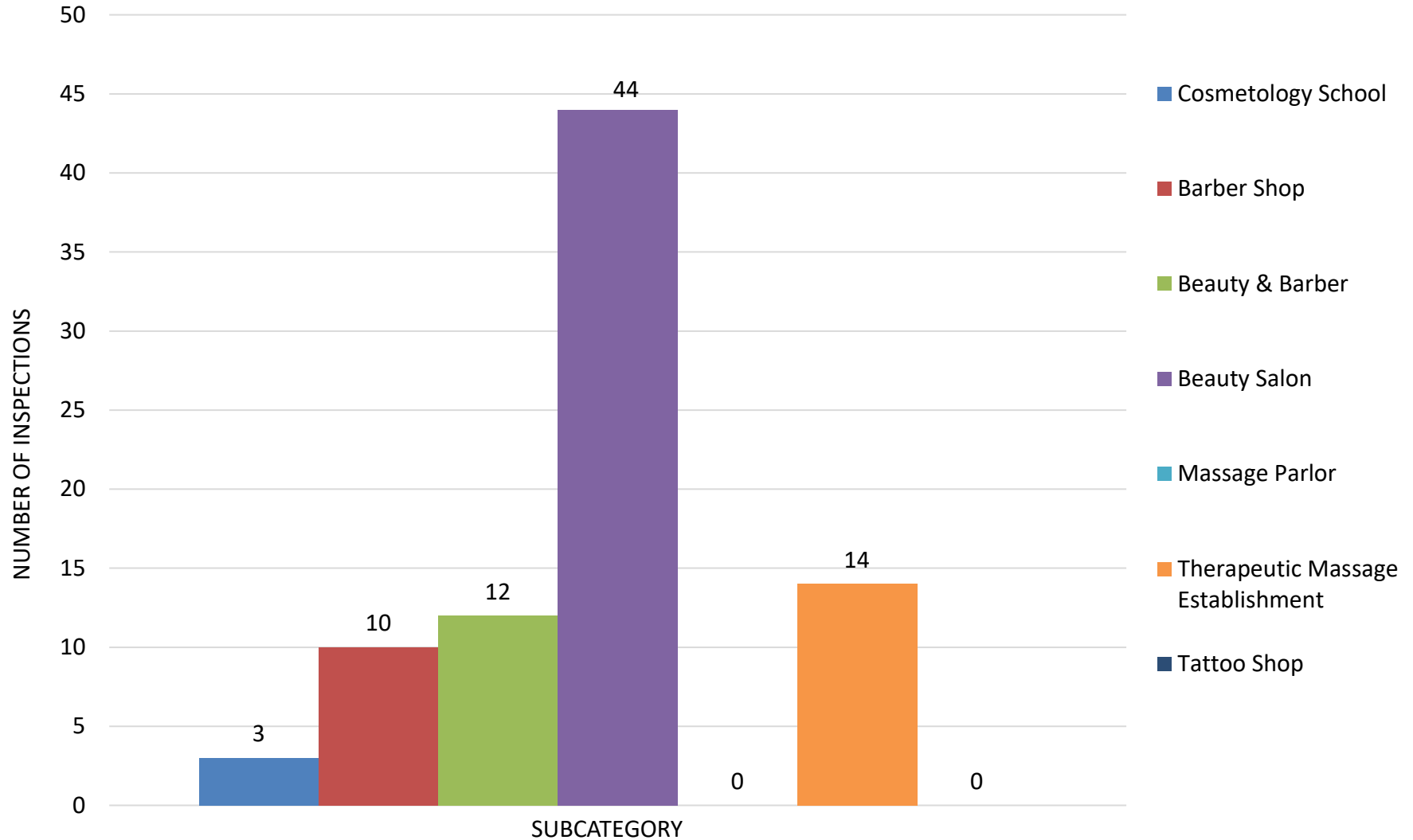


Figure 9. Number of sanitation inspections conducted of Cosmetic Establishments by the Division of Environmental Health in FY 2017.

DRY CLEANING AND LAUNDRY ESTABLISHMENTS

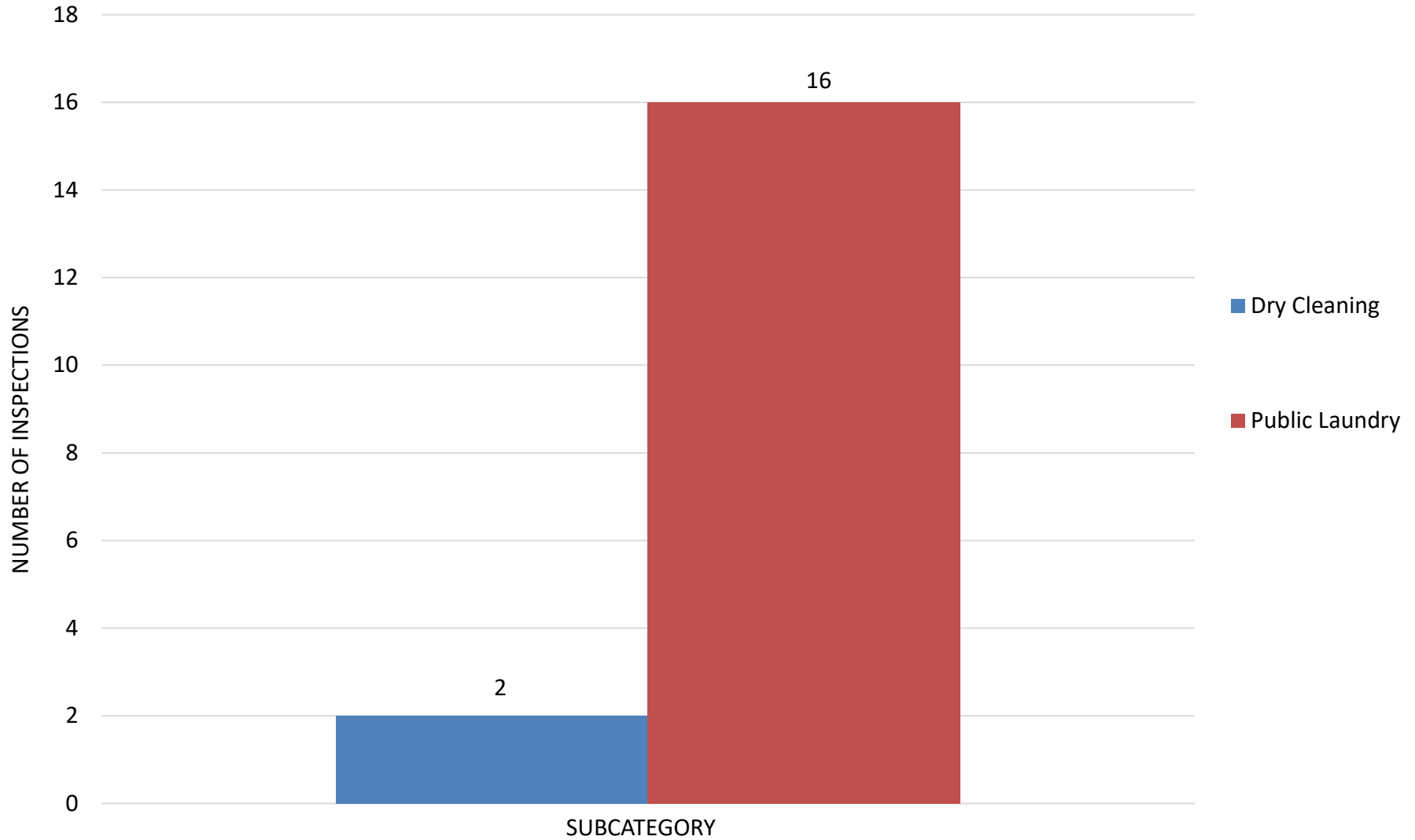


Figure 10. Number of sanitation inspections conducted of Dry Cleaning and Laundry Establishments by the Division of Environmental Health in FY 2017.



PUBLIC SWIMMING POOLS

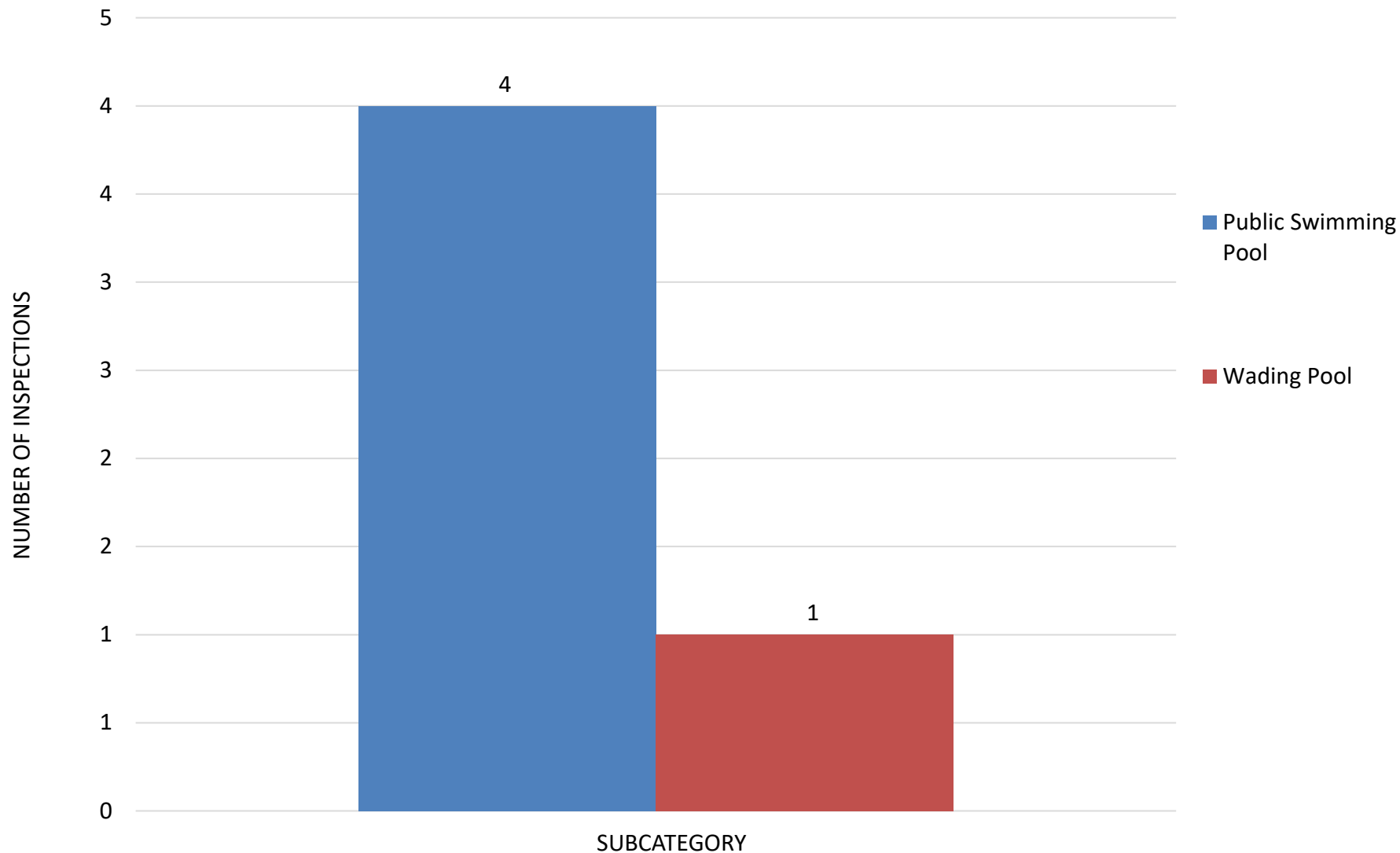


Figure 11. Number of sanitation inspections conducted of Swimming Pools by the Division of Environmental Health in FY 2017.

# ACCOMPLISHMENTS

## *MORTUARY*

The absence of any rules and regulations for the control of mortuaries prevented DEH from permitting or inspecting these establishments that are operating on the island.

## *PLANS AND SPECIFICATIONS*

The number of pre-operational inspections conducted by Plans & Specifications (P&S) decreased by 31.6% (TFSE applications were not included in the total number of inspections because pre-operational inspections for this category are generally not conducted) in FY 2017 (**Table 22**) compared to last fiscal year, from 588 to 402. Two-hundred and ninety-one pre-operational inspections were conducted in Fiscal 2017 of new establishments. Assessments, which are done to determine compliance on a less formal basis than a pre-operational inspection, were around 1% of inspections conducted by the section. Business License clearances of regulated and non-regulated establishments comprised nearly 86.2% of all clearances conducted by the section. P&S also reviewed 423 construction and floor plans, provided 1,204 consultations, and answered 121 phone inquiries in Fiscal Year 2017.

Complete data on the number of pre-operational inspections performed by DEH in FY 2017 for the different categories and subcategories are provided in **Table 23**.

## *COMMUNITY SERVICES*

- *Cemeteries and Mortuaries*

There were no significant events in matters related to cemeteries and mortuaries that occurred this fiscal year. The Division did not witness any of the approved exhumation requests.

- *Radiological Health, Compressed Air, and Solid Waste*

There were no significant events in matters related to radiological health that happened this fiscal year. No referrals or complaints were received by DEH during this reporting period for compressed air and no significant inspections or investigations transpired relevant to solid waste in FY 2017.

PERMIT CENTER ACTIVITIES						
Number of Pre-Operational Inspections		Number of Business Clearances		Number of Plan Reviews	Number of Consultations	Number of Phone Inquiries
New Establishment	291	Business License (Non-HRE)	104	423	1,204	121
		Business License (HRE)	378			
Change of Ownership	79	Alcohol & Beverage License	18			
Renovation or Conversion	0	Childcare License	14			
Assessment	4	H-2 Workers License	6			
Occupancy	28	Contractor License	39			
<b>Total</b>	<b>402</b>	<b>Total</b>	<b>559</b>			

**Table 22. Accomplishments of the Division of Environmental Health at the Permit Center in FY 2017.**

# ACCOMPLISHMENTS

PRE-OPERATIONAL INSPECTIONS						
CATEGORY & SUBCATEGORY		TYPE OF INSPECTION				
		NEW	CHANGE OF MANAGEMENT	ASSESSMENT	OCCUPANCY	TOTAL
EATING & DRINKING ESTABLISHMENTS	Bar	8	6	1	3	19
	Cafeteria	1	0	0	0	1
	Catering	4	1	0	0	5
	Coffee Shop	13	2	1	2	18
	Drink Stand	19	0	0	0	19
	Restaurant	30	20	2	5	57
	Sandwich Stand	0	0	0	0	0
	Short Order Establishment	6	0	0	0	6
	Soda Fountain	1	0	0	0	1
	Stall Stand	3	3	0	0	6
	Tavern	1	0	0	0	1
	Mobile Food Service Establishment	19	2	0	0	24
	Temporary Food Service Establishment	28	0	0	0	28
	Vending Machine (Food)	0	0	0	0	0
	Vending Machine (Beverage)	12	0	0	0	12
<b>Subtotal</b>	<b>145</b>	<b>34</b>	<b>4</b>	<b>10</b>	<b>197</b>	
INSTITUTIONAL FACILITY	Child Care Center	5	1	0	0	6
	Family Day Care Home	2	0	0	0	2
	Foster Family Home	0	0	0	0	0
	Group Day Care Home	0	0	0	0	0
	Group Foster Home	0	0	0	0	0
	Residential Treatment Facilities	0	0	0	0	0
	Adult Group Day Care Center	0	0	0	0	0
	Nursing Home	0	0	0	0	0
	Detention Center	0	0	0	0	0
	Correction Facility	0	0	0	0	0
	Juvenile Detention Center	0	0	0	0	0
	Hospital	0	0	0	0	0
	Clinic/Hospital	0	0	0	1	1
	School	0	0	0	3	3
<b>Subtotal</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>12</b>	
PRE-OPERATIONAL INSPECTIONS						
CATEGORY & SUBCATEGORY		TYPE OF INSPECTION				
		NEW	CHANGE OF MANAGEMENT	ASSESSMENT	OCCUPANCY	TOTAL
FOOD ESTABLISHMENT	Bakery	2	0	0	0	2
	Beverage Plant	0	0	0	0	0
	Bottling Plant	0	0	0	0	0
	Confectionary	0	0	0	0	0
	Dairy	0	0	0	0	0
	Delicatessen	0	0	0	0	0
	Fish Processing Plant	0	0	0	0	0
	Food Refrigeration Plant	0	0	0	0	0
	Food Warehouse	12	0	0	2	14
	Fruit/Vegetable Market	0	0	0	0	0
	Ice Plant	0	0	0	0	0
	Manufacturer	33	5	0	0	38
	Meat/Poultry Market	0	0	0	0	0
	Packing House	0	0	0	0	0
	Public Market	0	0	0	0	0
	Retail	35	22	0	10	67
<b>Subtotal</b>	<b>82</b>	<b>27</b>	<b>0</b>	<b>12</b>	<b>121</b>	

**Table 23. Number of Pre-Operational Inspections conducted by the Division of Environmental Health in FY 2017 for each category (continued on next page).**

# ACCOMPLISHMENTS

PRE-OPERATIONS INSPECTIONS						
CATEGORY & SUBCATEGORY		TYPE OF INSPECTION				
		NEW	CHANGE OF MANAGEMENT	ASSESSMENT	OCCUPANCY	TOTAL
HOTEL	Hotel	0	3	0	2	5
	Motel	0	1	0	0	1
	Dormitory	10	0	0	0	10
	<b>Subtotal</b>	<b>10</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>16</b>
COSMETIC ESTABLISHMENT	Barber Shop	3	0	0	0	3
	Beauty Salon	13	0	0	0	11
	School of Cosmetology	0	0	0	0	0
	Massage Parlor	0	0	0	0	0
	Therapeutic Massage	9	16	0	0	25
	Tattoo Shop	8	0	0	0	8
	<b>Subtotal</b>	<b>33</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>47</b>
SWIMMING POOL	Public Swimming Pool	5	1	0	0	6
	Wading Pool	0	0	0	0	0
	<b>Subtotal</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>6</b>
LAUNDRY & DRY CLEANING	Dry Cleaning Establishment	0	0	0	0	0
	Public Laundry	0	0	0	0	0
	<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Edible Garbage Feeding Establishment		0	0	0	0	0
<b>GRAND TOTAL</b>		<b>282</b>	<b>83</b>	<b>4</b>	<b>28</b>	<b>399</b>

(continued from previous page) Table 23. Number of Pre-Operational Inspection conducted by the Division of Environmental Health in FY 2017 for each category.

- *Wastewater and Toilet*

Section 39107 of Title 10 GCA, Chapter 39 requires DEH to adopt rules and regulations governing the operation of chemical toilets. The Attorney General's office approved the draft Rules and Regulations Governing Chemical Toilets (the "Regulations") on March 7, 2017. However, in April 2017, DEH submitted a revised version for review, which included provisions specific to the issuance of a "Chemical Toilet Permit." The specific language included when such permit would be suspended, revoked, and graded, along with the posting of placards and inspection reports. The letter from the Office of the Attorney General, which approved the revised Regulations, was received by DPHSS on May 8, 2017. The Regulations were submitted to the Legislative Secretary on June 19, 2017. Pursuant to the Administrative Adjudication Law, 5 GCA §9303, ninety (90) calendar days elapsed from the date of filing without any action from the Legislature, and the Regulations became effective on September 17, 2017. The Regulations can be found on the legislative website as a message and communications number 34GL-17-0646. Upon receipt of notice from the Legislative Secretary that the Regulations had become effective, DEH began the process of implementing the Chemical Toilet Program. DEH anticipates the full implementation of this program in FY 2018.

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## VECTOR CONTROL

- *Mosquito Surveillance and Control Program*

In December 2017, DEH invited various stakeholders to attend the inaugural Mosquito Advisory Council/Stakeholder Meeting that included Government of Guam agencies, military counterparts,

## ACCOMPLISHMENTS

and non-government organization. DEH held the first meeting on January 25, 2017 at the Guam Environmental Public Health Laboratory (GEPHL) to provide information on DEH's responsibility and role regarding mosquito control and to seek membership for the Mosquito Control Working Group. A presentation was conducted by M. Lastimoza of DEH and Patrick Lujan of the Division of Public Health's Public Health Emergency Preparedness Program. The meeting was attended by representatives from: National Parks Service, GCQA, Pacific Island Health Officers Association (PIHOA), CDC, Guam Homeland Security/Office of Civil Defense, Department of Agriculture, Port Authority of Guam, Department of Military Affairs, U.S. Air Force, U.S. Navy, Guam Army National Guard, Senator Dennis Rodriguez Office, and Mayor's Council of Guam. Accompanying PIHOA at the meeting was Top End Pest Control who was contracted by that association to conduct mosquito control activities.



Photo 7: Miss Skeeta's Activity Book.  
(Source: DEH)

DEH worked with several consultants employed by PIHOA. Zika Response and Emergency Preparedness Project Managers Alison Amoroso and Kinsey McFadden, Environmental Health Specialist Osker Dugger, Entomologist Elodie Vajda, and Vector Control Specialist Eileen Jeffrey Gutierrez. All assisted in advancing DEH's Zika activities by building the capacity of the GEPHL, which included support for MSCP's surveillance and control activities. Ms. Vajda was instrumental in providing guidance to the MSCP staff in surveillance/trapping; rearing, identification, and cataloging of mosquitoes; initiating coordination with California mosquito database platform (CalSurv); collaboration with Walter Reed Biosystematics Unit (WRBU) for assistance in adult mosquito identification; assisting in grant proposals and reports; and drafting the Guam Vector Management Strategic Plan during her tenure. In addition, PIHOA's subcontractor, Global Safety Solutions for Health (GSSHealth), developed several guidelines and standard operating procedures for

GEPHL.

Collaboration with CalSurv (California Vectorborne Disease Surveillance Gateway System) was approved by the Director of DPHSS through a memorandum of understanding (dated September 12, 2017). The memo noted that CalSurv would be used to comprehensively record, map, and manage Guam's robust baseline (historical) mosquito data. This data would be for the planning and deployment of time and cost-effective vector surveillance and control activities on Guam. In addition, DEH will continue to submit surveillance data to CDC's MosquitoNet website as required in the Epidemiology and Laboratory Capacity Grant for Infectious Disease (ELC) Cooperative Agreement.

Through PIHOA's contract with GSSHealth, DEH received essential administrative assistance from the private consultant to build up GEPHL's capacity. Among the deliverables submitted was the draft MSCP Operability and Sustainability Framework that included standard operating procedures on safety, equipment, facility management, inventory (ordering and budgeting), and vector control laboratory and surveillance activities; Laboratory Biosafety Manual; document control system, facility guide, forms (compliance and training logs, induction checklist, warehouse

## ACCOMPLISHMENTS

stock sheet, supply chain report/assessment); budget estimation tools; proposed equipment list; risk assessment strategy flow chart; and Staffing Training Plan.

Other notable activities that occurred this fiscal year were:

- Two Mosquito Surveillance and Control Program (MSCP) staff of DEH attended the Florida Mosquito Control Association 2017 Dodd Plenary Short Course Training on adult and larval mosquito identification in Altamonte Springs, 01/30-02/02/17.
- Two MSCP staff attended the U.S. Navy's Fiji Pesticide Applicator 2017 Training Course sponsored by Navy Entomology Center of Excellence, Fiji Ministry of Health & Medical Services, and NEPHU 6 in Suva, Fiji, 05/11-16/17.
- Two MSCP staff attended the World Health Organization's Integrated Vector Management Workshop for Pacific Island Countries Training of the Trainers that was co-sponsored by Fiji Ministry of Health & Medical Services in Suva, Fiji, 05/16-19/17.
- MSCP staff assisted in the PIHOA Zika Summit and Vector Control Conference held at the Guam Holiday Resort & Spa, 06/26-26/17.
- DEH hosted the U.S. CDC Medical Entomology Course sponsored by U.S. Centers for Disease Control and Prevention in the GEPHL training room, which was conducted by Dr. Harry Savage, Chief Research Entomologist, and Mr. Marvin S. Godsey, Jr., Microbiologist, on 08/14-18/17.
- Completion of the educational books "Miss Skeeta's Helpful Mosquito Tips" and "Miss Skeeta's Activity Book" for use in MSCP educational campaign to target elementary school children.
- Novel mosquito species, *Wyeomyia mitchellii*, was discovered and recorded on Guam.
- Submission of a manuscript to the Journal of Medical Entomology Editorial Office ESA for publication by Oxford University Press: [New Record of *Wyeomyia mitchellii* (Diptera: Culicidae) on Guam, United States.] Authored by Elodie A. Vajda, Cameron E. Webb, Cheryl Toi, John C. Clancy, James Perez Cruz, Jerome Garcia, and Claire Baradi. Website: <https://goo.gl/rnjYKY>



Photo 8. Mosquito surveillance training in Fiji. (Source: DEH)

### • *Mosquito & Vector Surveillance*

In FY 2017, mosquito surveillance focused on identifying and monitoring sentinel sites, which should provide early warning of unwanted mosquito-species introduction and presence of infected mosquitoes. These sites were ports of entry; disadvantaged, densely populated, neighborhoods; areas exhibiting poor solid waste management; and hospitals. All stages of the mosquito life cycle were targeted.

To develop skills and ascertain the best methods of surveillance, the MSCP began to spot surveillance with the CDC Light Trap, BG-Sentinel, and oviposition mosquito traps in March



## ACCOMPLISHMENTS

2017. Areas thought to be a potential habitat for mosquitoes, such as Chamorro Village, Harmon Industrial Park, cemeteries, and hotels in Tumon were surveilled. Samples were collected and brought back to the laboratory for processing. In July 2017, a more routine, progressive surveillance schedule was adopted based on the Guam Vector Management Strategic Plan:

- Tier 1 – High-risk entry points for *Aedes aegypti* (A.B. Won Pat International Airport and Port Authority of Guam), as well as high-risk transmission areas (e.g., schools; health facilities; and disadvantaged, densely populated, neighborhoods).
- Tier 2 – Moderate transmission risk areas, other built-up areas with a high population (e.g., tourism areas, wealthier suburbs).
- Tier 3 – Low density and natural environment settings; often rural and not densely populated (e.g., the southern part of the island).

MSCP was able to implement surveillance at Tier I sites, with the exception of the A.B. Won Pat International Airport due to lack of response from airport management. Sites where regular surveillance were conducted include:

- Port Authority of Guam, Piti
- Guam Memorial Hospital, Tamuning
- Guam Regional Medical City, Dededo
- Astumbo Elementary School, Dededo

Surveillance and identification data were uploaded routinely onto the CDC's MosquitoNet website as required by DEH's Epidemiology and Laboratory Capacity Grant for Infectious Disease (ELC) Cooperative Agreement.

- *Guam Environmental Public Health Laboratory - Mosquito Lab*

The GEPHL was built to enhance the capacity of the MSCP to prevent the introduction and spread of mosquito-borne diseases in Guam. The GEPHL's goals include developing the capacity to collect and analyze data for relative abundance of mosquito species, monitoring geographic and environmental distribution patterns of mosquito species, determining maximum and minimum risk periods of public exposure to mosquito-borne diseases, and evaluating mosquito control activities. The data collected will become part of a historical database, which provides information on the dynamics of mosquitoes and mosquito-borne diseases in Guam.

Despite ongoing structural and operational challenges with the GEPHL, (construction and equipment deficiencies caused by building contractor) DEH occupied the facility on June 09, 2017 with the understanding that these deficiencies would be timely corrected by the contractor. The occupation of the facility also enabled DEH to begin routine surveillance of mosquitoes. In the interim, DEH continued to monitor the facility's temperatures and relative humidity with the presence of occupants in the building to better assess the operation of its HVAC system. Additionally, the occupation of the facility was necessary to accommodate the installation and

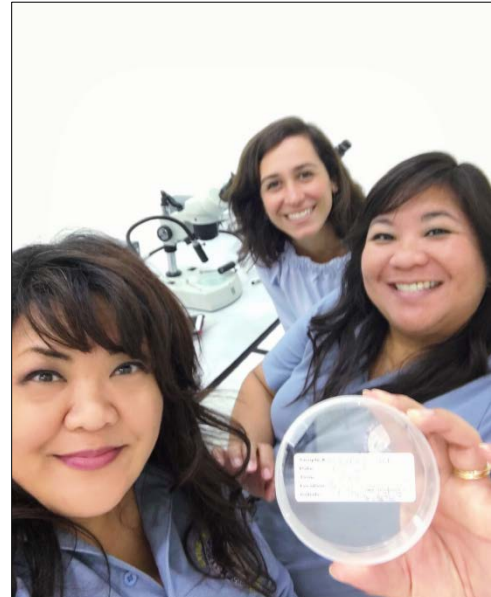


Photo 9. Mosquito Identification. E. Vajda of PIHOA with M. Lastimoza and C. Baradi conducting mosquito identification. (Source: DEH)



## ACCOMPLISHMENTS

storage of procured equipment and to provide office space for new and temporary staff and consultants.

Activities conducted at the mosquito lab of the GEPHL in FY 2017 included the preparation and troubleshooting of mosquito traps for routine and mosquito-borne disease response trapping; rearing of mosquito larvae samples to adult; adult mosquito sorting and identification; and building a mosquito repository for reference specimens. Because the mosquito lab had become operational, DEH's assistance from the Preventive Medicine Department of the U.S. Naval Hospital Guam for mosquito species identification and pathogen analysis had tapered. In addition, greater focus was placed on building the staffs' mosquito identification competency through training provided by PIHOA, WHO, and CDC. For mosquitoes unidentifiable by the staff, a mechanism was developed (and currently being tested) to send the specimens to Walter Reed Biosystematics Unit in Washington, DC for identification.

- *Mosquito-Borne Disease and Outbreak Response*

Two mosquito-borne diseases (MBD) were reported in FY 2017:

1. Reported to DEH on August 25, 2017: One imported case of suspected Dengue Fever from the Philippines.
  - Guam resident residing in Barrigada
  - Patient was seen and treated on Guam
  - Serology testing: Dengue fever Ab, IgG: 7.64/above high normal
  - DEH performed surveillance within 200 meters from patient's residence
  - No known locally transmitted cases of MBD resulted from this patient
  - Approximately 100 brochures were distributed to residents living near the case-patient
2. Reported to DEH on August 25, 2017: One imported case of suspected Dengue Fever from the Philippines.
  - Guam resident residing in Dededo
  - Patient was seen and treated on Guam
  - Serology testing: Dengue fever Ab, IgG: 3.25/above high normal
  - DEH performed surveillance within 200 meters from patient's residence
  - No known locally transmitted cases of MBD resulted from this patient
  - Approximately 130 brochures were distributed to residents living near the case-patient

- *Press Releases*

The MSCP issued the following press releases for mosquito control:

1. 2017-009: "Mosquito Breeding Sites/Habitat Source Reduction" on November 08, 2016.
2. 2017-056: "Elimination of Mosquito Breeding Sites and Bite Prevention Tips" on June 12, 2017.
3. 2017-057: "National Mosquito Control Awareness Week 2017 June 25 – July 1, 2017" on June 23, 2017.
4. 2017-064: "New Recorded Mosquito Species on Guam" on August 07, 2017
5. 2017-076: "Confirmed Imported Dengue Case on Guam Mosquito Breeding Sites/Habitat Source Reduction" on September 1, 2017.

## ACCOMPLISHMENTS

6. A total of one complaint regarding mosquito was received by DEH in FY 2017. Three other cases were carried over to FY 2018, including two complaints from Fiscal Year 2016.

- *Epidemiology and Laboratory Capacity for Infectious Disease (ELC) Cooperative Agreement*

Through the Epidemiology and Laboratory Capacity (ELC) for Infectious Diseases Cooperative Agreement, over \$300 million in FY 2017 (Zika Supplemental and Year 4 Continuation award) was awarded to local, state, and territorial health departments to strengthen the United States' public health infrastructure to continue to:

- Build and maintain effective public health workforce for rapid response to infectious disease outbreaks
- Strengthen cross-cutting national surveillance systems
- Boost laboratory infrastructure with the latest diagnostic technologies
- Improve health information systems to efficiently transmit, receive, and analyze infectious disease-related data electronically

The 5-year funding cycle for ELC's Cooperative Agreement began August 1, 2014 and ran through July 31, 2019.

In FY 2017, DPHSS was awarded a total of \$1,390,037 from the ELC Grant, of which \$178,202 was made available to MCSCP. This funding was approved for the procurement of BG-2 Sentinel mosquito traps and accessories, a laboratory chill plate, stereo microscopes, gooseneck illuminators, RAMP supplies, aspirators, and other laboratory and surveillance equipment and supplies. The funding also allowed for the recruitment of an Environmental Technician I, training of staff, and the contracting of data services. Procurement of these items, and the recruitment of the technician, were still pending at the end of FY 2017.

- *Rodent Surveillance and Control Program*

Rodent surveillance and control activities remained inactive during the fiscal year. No routine surveillance activities were conducted aside from normal inspections of private premises due to complaints received by the Division. A total of seven rodent-related complaints were received in FY 2017. One case could not be substantiated; two cases were closed (one carry-over from FY 216 and one from this fiscal year); and eight complaints (two carry-overs from FY 2016, and six from this fiscal year) were still pending and carried over to Fiscal Year 2018.

- *Fly Control Program*

One fly complaint was received by DEH in FY 2017, which was addressed and closed. One of two carry-over complaints from FY 2016 about flies was resolved and closed; however, the second complaint was still pending and should be addressed in Fiscal Year 2018

- *Complaints*

A total of 89 complaints were received in Fiscal Year 2017, with the 3<sup>rd</sup> quarter having the most complaints (28). In addition, one complaint from FY 2014, 11 from FY 2015, and 23 from FY

## ACCOMPLISHMENTS

2016 were carried into FY 2017. Forty-five cases were closed this fiscal year, and 81 complaints pending corrective action will be addressed in Fiscal Year 2018.

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### ***DIVISION OF ENVIRONMENTAL HEALTH ACTIVITIES***

The Division of Environmental Health took advantage of several training opportunities during FY 2017, as well as providing various educational presentations to the public.

- Off-Island Training/Conferences
  - 01/30/2017-02/02/2017: Florida Mosquito Control Association, 2017 Dodd Plenary Short Course Training in Altamonte Springs, Florida; attended by R. Rabago and C. Baradi.
  - 02/08-10/2017: Association of Public Health Laboratories (APHL) PulseNet and OutbreakNet Regional Meeting in San Francisco, California; attended by M. Scroggs and K. Del Mundo.
  - 03/13-17/2017: University of Southern California, Cross Connection Course for the Training of Backflow Prevention Assembly Testers, in Los Angeles, California; attended by D. Mitchell and E. Lum.
  - 04/11-13/2017: Centers for Disease Control (CDC) Epidemiological and Laboratory Council (ELC) Grantee Meeting, in Atlanta, Georgia; attended by R. Rabago.
  - 05/02-03/2017: 2017 Prescription Drug Monitoring Program West Regional Meeting in Portland, Oregon; attended by J. Pinaula and R. Suva.
  - 05/10-15/2017: U.S. Navy's Fiji Pesticide Applicator 2017 Training Course conducted by Navy Entomology Center of Excellence, Fiji Ministry of Health & Medical Services, and NEPHU 6 in Suva, Fiji; attended by C. Baradi and R. Rabago.
  - 05/16-19/2017: World Health Organization's Integrated Vector Management Workshop for Pacific Island Countries, Training of the Trainers conducted by Fiji Ministry of Health & Medical Services in Suva, Fiji; attended by C. Baradi and R. Rabago.
  - 05/15-19/2017: Fundamental Health Physics H-122 conducted by the U.S. Nuclear Regulatory Commission in Chattanooga, Tennessee; attended by M. Lastimoza.
  - 06/13-16/2017: 2017 Public Health Improvement Training in Albuquerque, New Mexico; attended by J. Pinaula.
  - 06/04-08/2017: 2017 CSTE Annual Conference and Zika: Lessons Learned from a Cross-Cutting Response Workshop hosted by the Council of State and Territorial Epidemiologists in Boise, Idaho; attended by M. Lastimoza.
  - 07/08-09/2017: Certified Professional in Food Safety (CPFS) Review Course in Grand Rapids, Michigan; attended by R. Oriondo and J. Garcia.
  - 07/10-13/2017: 2017 National Environmental Health Association Annual Education Conference (NEHA AEC) in Grand Rapids, Michigan; attended by T. Nadeau, J. Garcia, and R. Oriondo.
  - 07/24-26/2017: 2017 FileMaker Developers Conference in Phoenix, Arizona; attended by J. Pinaula.
  - 08/28-09/08/2017: Federal Drug Administration Hands-on Microbiology Training in Alameda, California; attended by K. Del Mundo.

## ACCOMPLISHMENTS

- 09/06-08/2017: 2017 Bureau of Justice Assistance (BJA) Harold Rogers Prescription Drug Monitoring Program National Meeting in Washington, DC; attended by J. Pinaula.
- 09/11-22/2017: Federal Drug Administration LB235 Fundamentals of Regulatory Microbiology Course in Jamaica, New York; attended by K. Del Mundo.
- *In-House, On-Island Trainings, and On-Island Presentations*
  - 12/09/2016: “Active Shooter TTX” conducted by Patrick Lujan of DPH’s Public Health Emergency Preparedness Program at DEH Conference Room in Mangilao. It was attended by R. Rabago, C. Baradi, K. Duenas, J. Garcia, J. Cruz, M. Scroggs, K. Del Mundo, L. Navarro, R. Oriondo, C. Naval, J. Pinaula, T. Barcinas, R. Suva, T. Muna, and J. Mendiola.
  - 12/15/2016: “MosquitoNET” webinar conducted by CDC; attended by R. Rabago, M. Lastimoza, and C. Baradi.
  - 01/18-20/2017: “GIS for Cultural Resources: An Introduction and Advanced Techniques” conducted by Deidre McCarthy of the National Preservation Institute at the Guam Community College in Mangilao; attended by J. Garcia and L. Navarro.
  - 02/06-09/2017: “CORE” certification training course conducted by GEPA at Hotel Palmridge in Barrigada; attended by T. Nadeau, R. Rabago, K. Duenas, E. Lum, and R. Oriondo.
  - 02/21-22/2017: Guam Joint Criminal-Epidemiological Investigations Workshop conducted by the Federal Bureau of Investigations and CDC at the Hyatt Regency Guam Hotel in Tumon; attended by T. Nadeau, J. Pinaula, M. Lastimoza, C. Baradi, K. Del Mundo, and K. Duenas. T. Nadeau also presented at the workshop.
  - 03/10/2017: Health Insurance Portability and Accountability Act (HIPAA) conducted by Dr. Suzanne S. Kaneshiro, DDS, MBA at the Division of Senior Citizens conference room, Castle Mall in Mangilao. It was attended by T. Nadeau, R. Rabago, C. Baradi, M. Lastimoza, J. Garcia, and J. Cruz.
  - 03/16/2017: Consumer Advisory Refresher Training conducted by K. Del Mundo. It was attended by T. Nadeau, R. Rabago, M. Scroggs, K. Duenas, M. Lastimoza, C. Baradi, E. Lum, D. Mitchell, L. Navarro, J. Cruz, J. Garcia, R. Oriondo.
  - 03/24/2017: “Infectious Disease Conference” sponsored by DPHSS at the Pacific Star Resort and Spa in Tumon. Attended by C. Baradi and M. Lastimoza.
  - 04/2017: Online instructional modules (45 modules) for “Fundamental Health Physics H-122” conducted by the U.S. Nuclear Regulatory Commission; it was completed by M. Lastimoza.
  - 04/24/2017: Webinar: “The Art of Interviewing: Communicable Disease Surveillance” conducted by Hillary Booth, Lead Food-Borne Disease Epidemiologist of Oregon Public Health Division at GEPHL in Dededo. It was attended by T. Nadeau, M. Scroggs, R. Rabago, J. Pinaula, K. Del Mundo, C. Baradi, M. Lastimoza, K. Duenas, D. Mitchell, E. Lum, J. Garcia, J. Cruz, L. Navarro, and R. Oriondo.
  - 04/25/2017: Foodborne Outbreak Interview Training conducted by FDA; attended by M. Lastimoza, C. Baradi, J. Garcia, and J. Cruz.
  - 05/11/2017: Webinar Series: Legal Epidemiology & Environmental Health Part 1 conducted by CDC; attended by M. Lastimoza, C. Baradi, and R. Rabago.
  - 05/22-26/2017: Data for Decision Making Module 1, DDM802: Public Health Surveillance conducted by Secretariat of the Pacific Community, Fiji National University, World Health Organization, University of Guam, CDC, NSW, and PIHOA at the Pacific Star Hotel in Tumon; attended by C. Baradi.

## ACCOMPLISHMENTS

- 05/26/2017: Finance 101 Training conducted by R. Suva and S. Taylor at the GEPHL Conference Room. It was attended by T. Nadeau, R. Rabago, M. Scroggs, J. Pinaula, M. Lastimoza, K. Duenas, K. Del Mundo, E. Lum, L. Navarro, J. Cruz, and R. Oriondo.
- 06/07/2017: Stress Management Class conducted by DOA at the ITC Building; attended by K. Del Mundo and L. Navarro.
- 06/16/2017: CORE Exam conducted by Guam EPA; completed by M. Lastimoza.
- 06/26-29/2017: PIHOA Zika Summit and Vector Control Conference conducted by PIHOA at the Holiday Resort & Spa in Tumon. It was attended by C. Baradi, J. Cruz, J. Garcia, M. Lastimoza, and R. Rabago.
- 08/11/2017: Health Insurance Portability and Accountability Act (HIPAA) conducted by Dr. Suzanne S. Kaneshiro, DDS, MBA at the Division of Senior Citizens conference room, Castle Mall in Mangilao; attended by T. Shimizu.
- 08/14/2017: EPA “Pesticide Applicator: CORE.” It was attended by C. Takase, T. Shimizu, and V. Raymundo.
- 08/14-18/2017: CDC Mosquito Course on Mosquito Morphology; Mosquito Identification; Adult, Larval, and Pupal Surveillance; and Insecticide Resistance Testing with CDC Bottle Assay conducted by Dr. Harry M. Savage and Marvin S. Godsey of CDC. It was attended by T. Nadeau, R. Rabago, M. Lastimoza, C. Baradi, D. Mitchell, J. Garcia, J. Cruz, T. Shimizu, and C. Takase.
- 08/23/2017: Introduction to Food Safety Program training involving Demonstration of Knowledge, Consumer Advisory, Time and Temperature, HACCP/Variance, General Knowledge of the Guam Food Code, General Summary, How to Use and Complete the “Food Establishment Inspection Report” Form, and Using Time as a Public Health Control conducted by K. Del Mundo. It was attended by R. Oriondo, V. Raymundo, T. Shimizu, and C. Takase.
- 08/25/2017: CDC webinar “Public Health Radiological/Nuclear Preparedness.” It was attended by R. Rabago, M. Lastimoza, and T. Shimizu.
- 08/30/2017: DPHSS Quality Improvement Council Progress to Date on the Three Accreditation Readiness Prerequisites and Procurement Project and Workforce Development Plan Presentation conducted by J. Pinaula and other DPHSS QIC members at Dusit Thani Ballroom in Tumon. It was attended by T. Nadeau, J. Pinaula, R. Suva, R. Rabago, and M. Scroggs.
- 09/15/2017: “Maritime Security Levels” training at Port Authority of Guam in Piti; attended by T. Shimizu

- Rules and Regulations

Several rules and regulations were drafted or initiated, during FY 2017.

- Chemical toilets

The draft proposed *Rules and Regulations Governing Chemical Toilets* were revised and resubmitted to the Attorney General’s Office for review on April 20, 2017. A memorandum approving the regulations as to form was received by DPHSS on May 8, 2017. The draft proposed regulations were transmitted to the Governor’s Office on June 12, 2017. The proposal was transmitted by the Governor’s Office to the Legislature on June 19, 2017. The proposed regulations lapsed into effect on September 17, 2017. Upon its promulgation, DEH worked on



## ACCOMPLISHMENTS

creating the Chemical Toilet Inspection Report. DEH will continue to work towards informing the stakeholders and implementing the regulations during FY 2018.

- *Medical Marijuana*

DEH developed and transmitted for adoption, the proposed *Rules and Regulations Governing Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013* in FY 2017. The proposal was eventually rejected by Public Law 33-184. Although the program was transferred to the Division of Public Health of DPHSS soon after, DEH continued to assist in the development of the revised regulations, which is expected to be completed in FY 2018.

- *Cosmetology*

In FY 2017, DEH staff continued to work on updating the proposed draft *Rules and Regulations Pertaining to Barber and Beauty Shops, Cosmetology Schools, and Nail Salons*. The staff also developed the public health reasoning and economic impact statement survey for the proposed regulations. The proposed regulation was not finalized during FY 2017.

- *Tattoo*

DEH began the process of updating the existing *Rules and Regulations Pertaining to Tattoo Shops* in FY 2017 by conducting research and gathering tattoo regulations of other jurisdictions.

- *Independent Contractor for Temporary Workforce Housing*

The *Rules and Regulations Governing Sanitation and Inspections of Temporary Workforce Housing* were implemented on November 14, 2016, and to prepare the industry for the new regulations, DEH met with operators and provided an informational presentation. By the end of FY 2017, 192 compliance inspections were conducted on 52 (out of 56 total) dormitories.

- *School Building Sanitation*

The administrative public hearing for the proposed *Rules and Regulations Pertaining to School Sanitation* was held on March 9, 2017. Although an economic impact statement was not required because the cost to implement the proposed regulations was not expected to exceed \$500,000, DEH nonetheless prepared one in response to comments received during the public hearing. The proposed regulations and the economic impact statement were submitted to the Office of the Attorney General in September 2017 for legal review and approval. DEH intends to transmit the proposal to the Legislature for adoption in FY 2018.

- **Policies and Procedures**

Fifteen directives were issued that formulated the operation of DEH during Fiscal Year 2017. These directives included:

- Policies related to field operations
  - Updated Letter of Warning/Notice of Closure Forms
  - Updated Guam Food Code Inspection Report and its standard operating procedure manual
  - TFSE Acknowledgement Forms, TFSE Inspection Report
- Policies related to office operations
  - Filing of Inspection report
  - Organization of Sanitary permit application folder
- Policies related to DEH program
  - Standard operating procedure for operating the autoclaves

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## ***BUDGET APPROPRIATION***

As shown in **Figure 12** trend data, General Fund (GF) appropriation to DEH has been increasing since FY 2015; however, the Division's expenditure of the fund over the same period decreased as a result of unfilled vacancies. Appropriations from the Environmental Health Fund (EHF) has also been increasing in the past years (**Figure 13**). In FY 2015, Environmental Health Fund expenditure dropped, partly due to the late recruitment of vacant positions, but otherwise, it has been steadily increasing.

Lapses at the end of every fiscal year are due primarily to the Division's inability to recruit personnel and/or being denied for recruitment. This is particularly evident for vacancies funded through EHF as expenditures have always been less than the appropriated amount (**Figures 14 and 15**).

Due to changes in the Sanitary Permit fees that were implemented in FY 2011 (**Figure 16**), revenues into EHF have increased since FY 2012. In FY 2014, revenue exceeded \$1 million for the first time. Sanitary Permit fees make up the majority of the revenue that the Division receives.

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## ***HEALTH-REGULATED ESTABLISHMENT INSPECTIONS***

The greater number of inspections conducted of food-related establishments and institutional facilities, compared to other regulated establishments, during FY 2004 to FY 2017 reflected the priorities of the Division (**Figure 17**). The number of inspections of institutional facilities during the period was directly attributed to the Division's commitment to inspect school buildings and child care facilities; however, inspections of school buildings have decreased in the last four years as DEH had focused only on the six pilot schools participating in the Community-Supported Maintenance Program. Facilities in other categories were inspected less frequently every year. After FY 2009, an increasing number of inspections that were conducted continued until FY 2014, which was period when the Division's focus was on preparing the food industry for the implementation of the newly-adopted Guam Food Code.

Cosmetic establishments were inspected more during FY 2013 and FY 2014 because of a focus on sanitation in these establishments during those two years. Focus on cosmetics was renewed in FY 2017 as DEH's Annual Guam Environmental Public Health Education Month directed its attention to the practice of cosmetology. This resulted in a significant increase in inspections for cosmetic establishments, from 19 total inspections in FY 2016 to 83 total inspections in FY 2017.

Inspection numbers overall began to increase again in FY 2015 and FY 2016, when new staff completed training and were able to conduct independent inspections, especially of temporary events, such as during the Festival of the Pacific Arts (FestPac) in FY 2016. In FY 2016, retail food inspections experienced an extraordinary rise in the number of inspections due to FestPac. Inspections of temporary retail food establishments were conducted continuously on a daily basis for two weeks. Fiscal Year 2017 continued to display strong numbers in the increase in the total number of inspections despite other program priorities assigned to the staff and the addition of the many temporary events throughout the year. The increases in hotel/motel inspections are attributed to the most recent implementation of the *Temporary Workforce Housing Rules and Regulations*, which require quarterly inspections of these establishments.

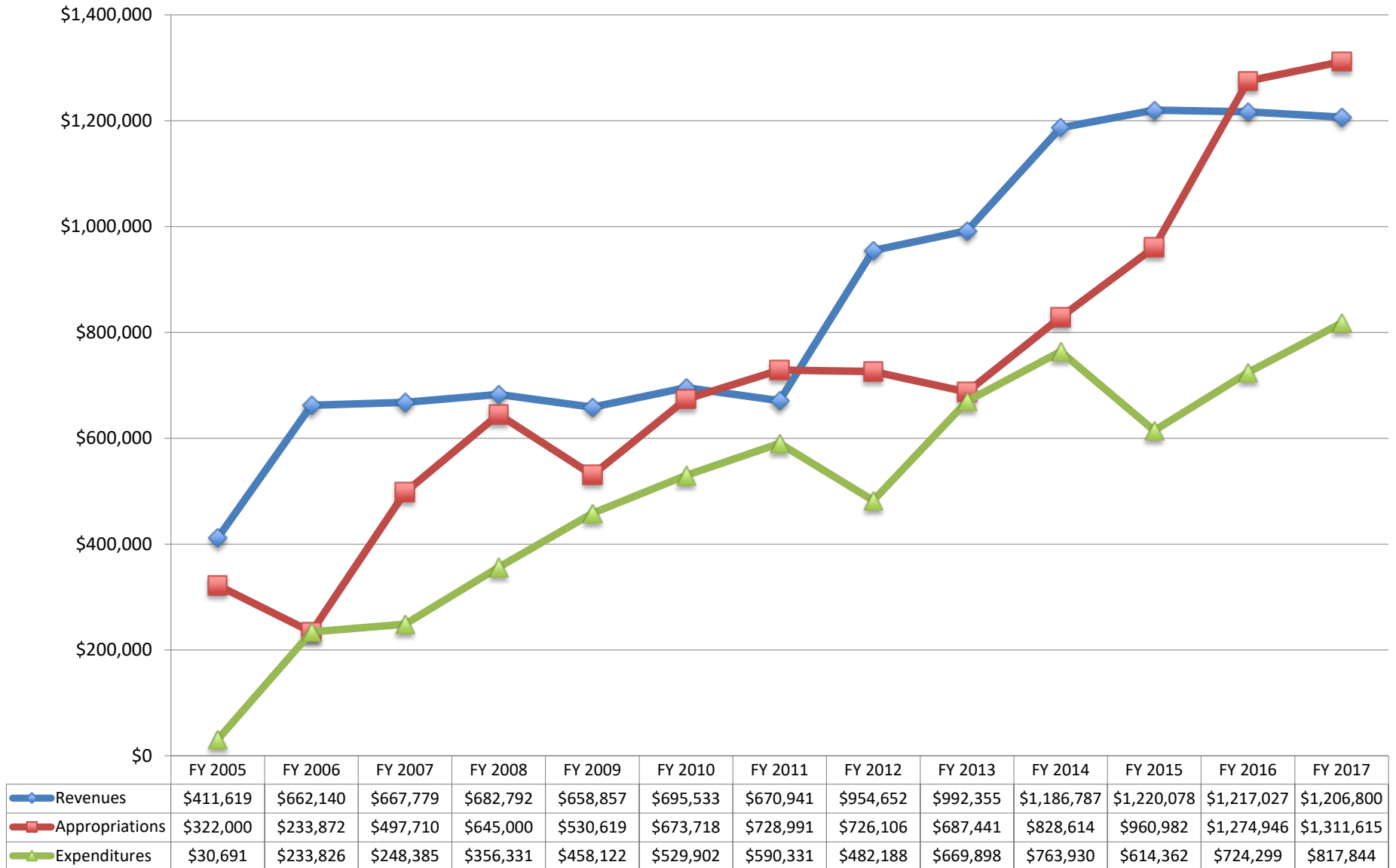


**FIGURE 12. GENERAL FUND APPROPRIATIONS AND EXPENDITURES  
(FY 2005 - 2017)**

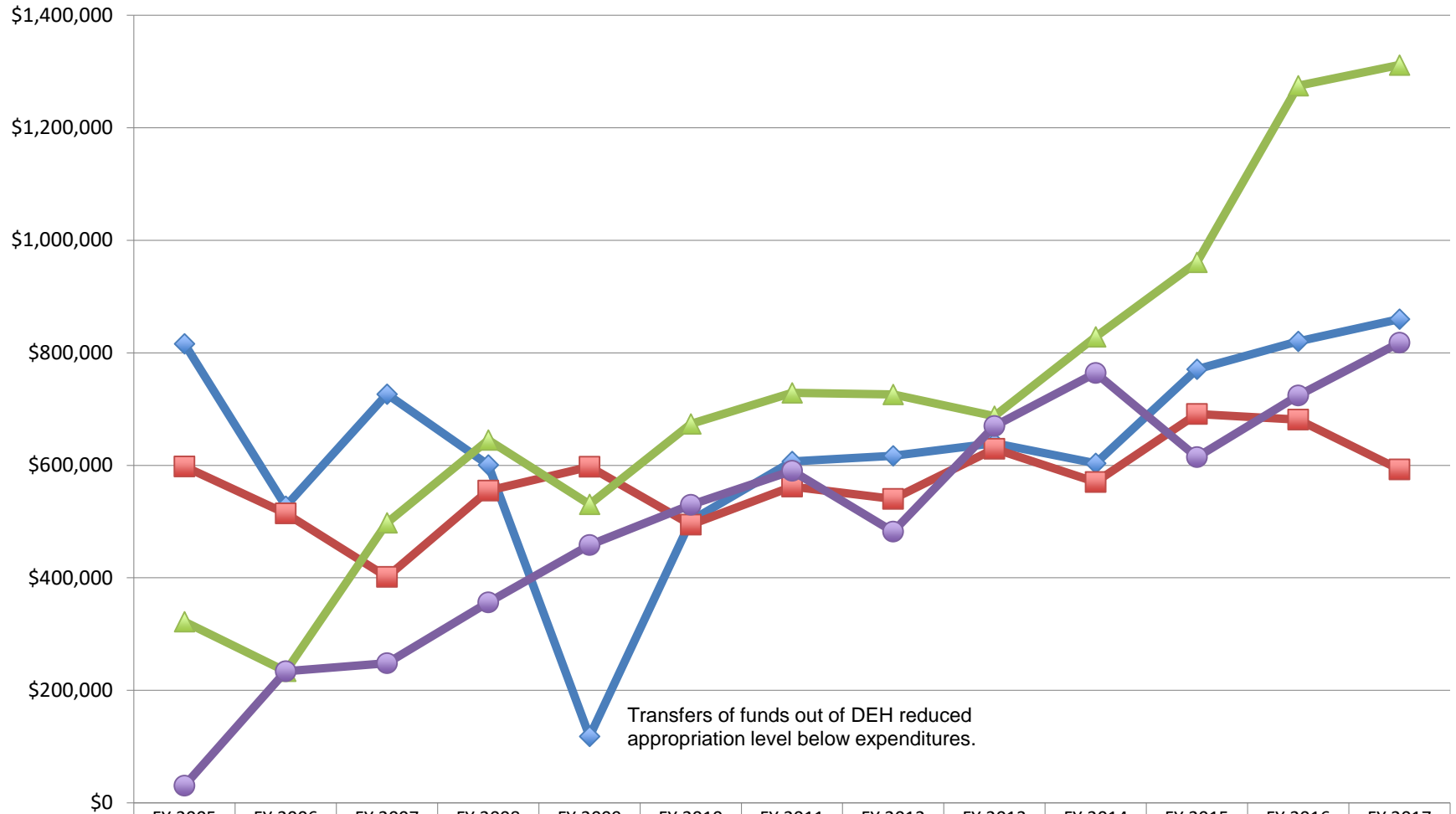


Transfers of funds out of DEH reduced appropriation level below expenditures.

**FIGURE 13. ENVIRONMENTAL HEALTH FUND REVENUES, APPROPRIATIONS, AND EXPENDITURES (FY 2005 - 2017)**

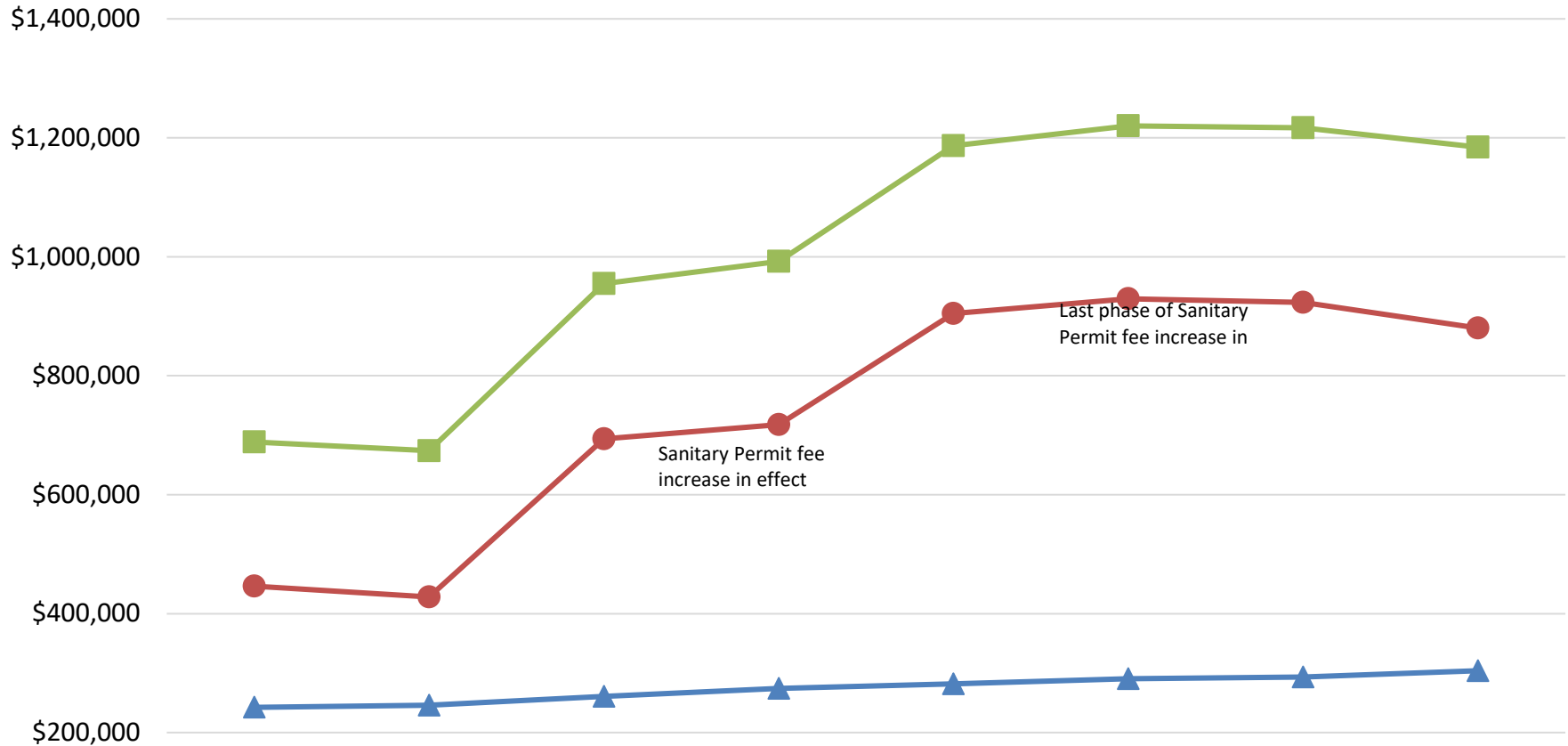


**FIGURE 14. APPROPRIATIONS AND EXPENDITURES BY FUNDING SOURCE (FY 2005 - 2017)**



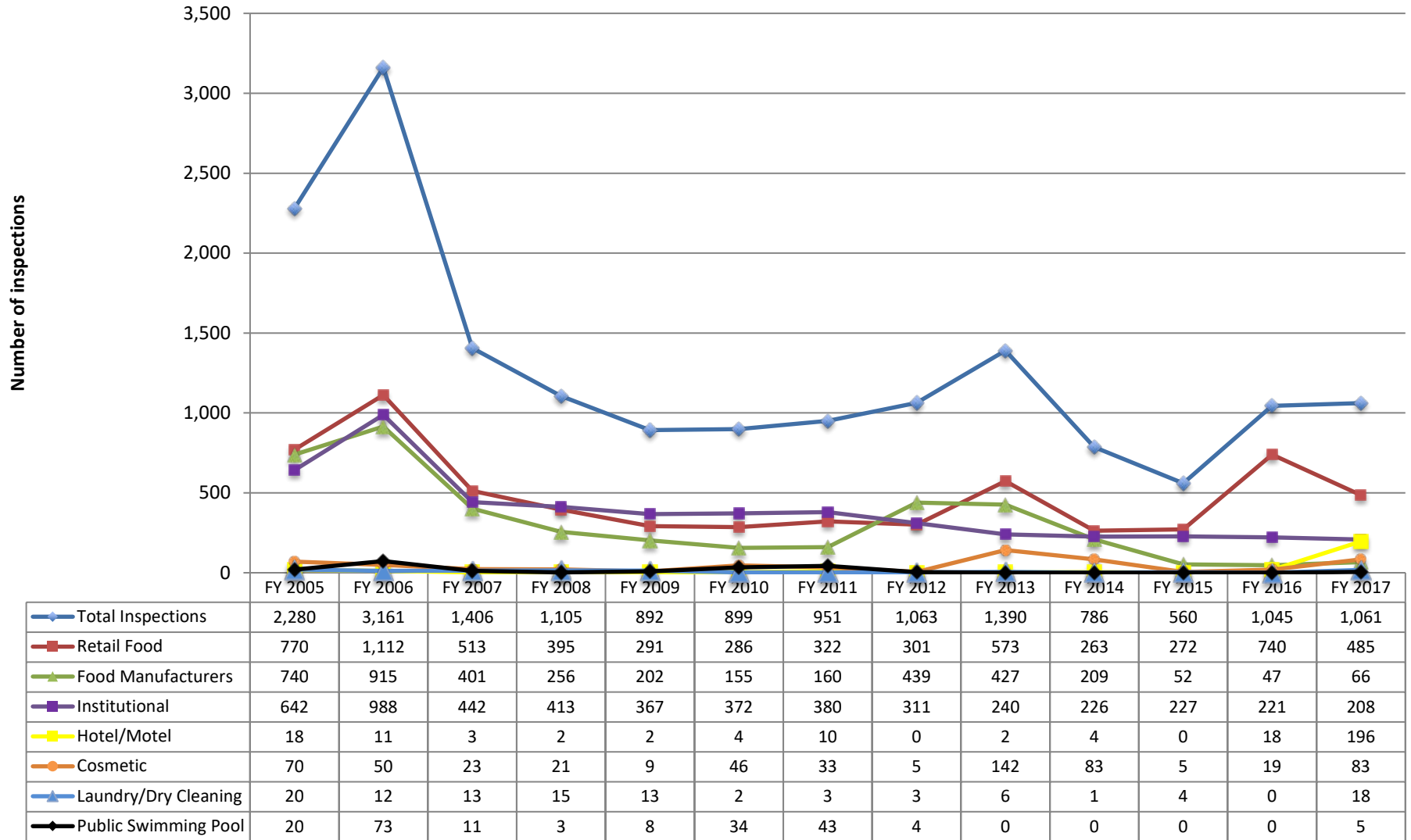
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
GF Appropriations	\$816,186	\$527,505	\$726,412	\$600,495	\$118,063	\$501,435	\$606,942	\$617,064	\$639,098	\$603,501	\$770,799	\$820,127	\$859,914
GF Expenditures	\$597,731	\$514,486	\$401,618	\$554,830	\$597,281	\$494,726	\$562,192	\$539,998	\$629,161	\$570,107	\$691,189	\$681,219	\$592,862
EHF Appropriations	\$322,000	\$233,872	\$497,710	\$645,000	\$530,619	\$673,718	\$728,991	\$726,106	\$687,441	\$828,614	\$960,982	\$1,274,946	\$1,311,615
EHF Expenditures	\$30,691	\$233,826	\$248,385	\$356,331	\$458,122	\$529,902	\$590,331	\$482,188	\$669,898	\$763,930	\$614,362	\$724,299	\$817,844

**FIGURE 15. ENVIRONMENTAL HEALTH FUND REVENUE BY SOURCE  
(FY 2010 - 2017)**



	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
▲ Health Certificate	\$242,447	\$245,889	\$260,955	\$274,370	\$282,127	\$290,724	\$293,632	\$304,042
● Sanitary Permit	\$446,321	\$428,052	\$693,698	\$717,985	\$904,669	\$929,354	\$923,395	\$880,231
■ Total Revenue	\$688,768	\$673,941	\$954,652	\$992,355	\$1,186,796	\$1,220,078	\$1,217,027	\$1,184,273

**FIGURE 16. SANITATION INSPECTIONS BY CATEGORY  
(FY 2005 - 2017)**



### *PROCESSING CENTER*

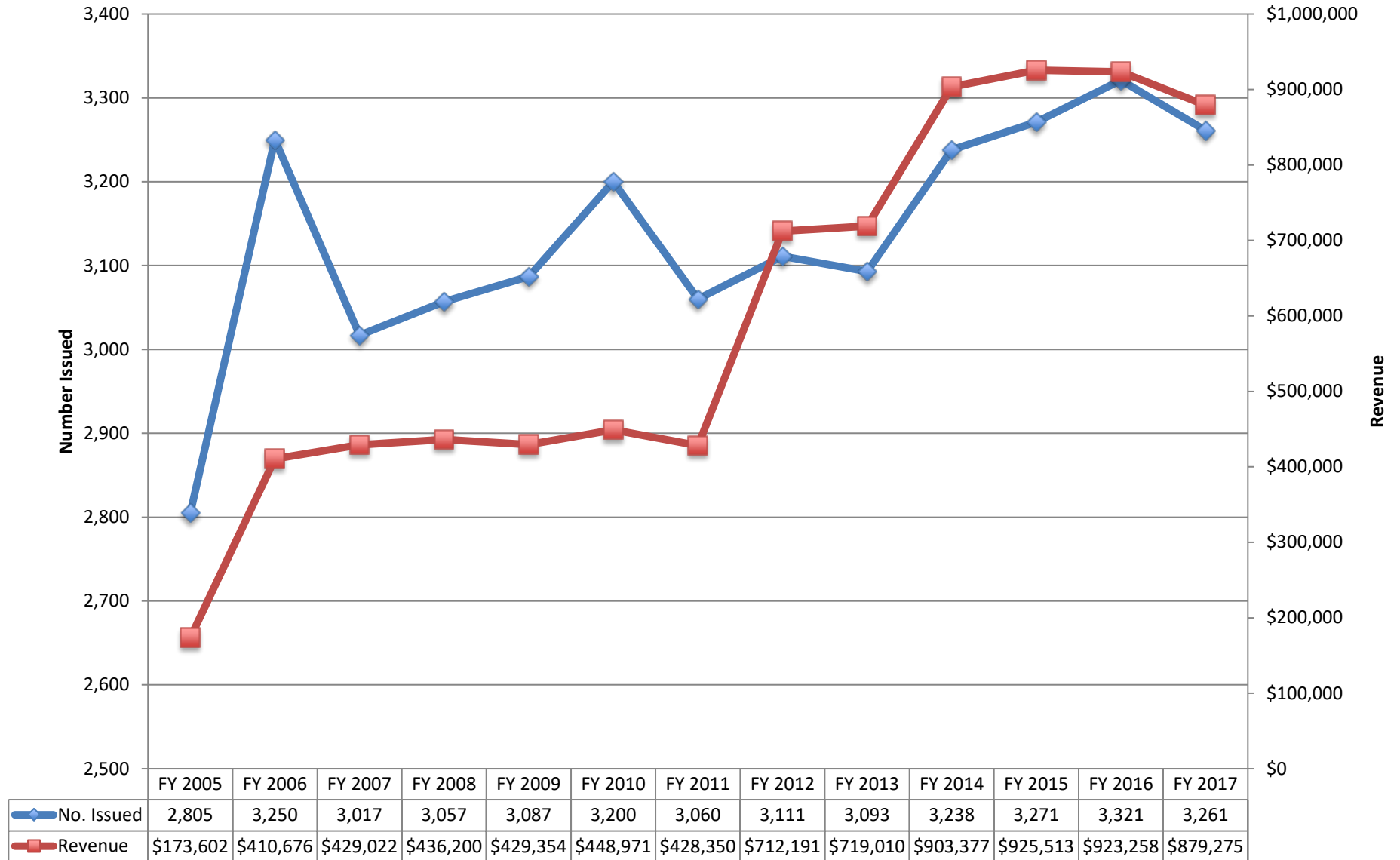
In the past 14 years, DEH issued a yearly average of 3,129 Sanitary Permits (**Figure 18**); 32,132 Health Certificates (**Figure 19**); and 337 Controlled Substances Registrations (**Figure 20**). The amount of revenues generated were directly correlated to the number of permits or certificates issued; more issuances meant more monies deposited into the EH Fund. This was evident for Sanitary Permits until FY 2007. The inconsistency of the Sanitary Permit trend for FY 2016 was likely due to the increased number of applicants requesting expedited processing and follow-up pre-operational inspections, which added additional funds, but not to the number of permits issued. Similar anomalies were observed for Health Certificates and Controlled Substances Registrations (CSRs). Correlation between Health Certificates issued, and revenues improved in FY 2006 through FY 2009, but not that of CSRs, where, in FY 2007, five fewer registrations were issued but \$5,000 more collected. There were fewer fee-exempt physicians registered in FY 2007, and more new registrations, which have higher fees than renewal registrations; thus, may have contributed to the greater amount collected in FY 2007. In FY 2009 and FY 2010, both the number of CSRs and the amount collected in fees increased. In FY 2011 to FY 2013, fee increases for both the CSR and the Sanitary Permit resulted in greater revenues in both of those areas, despite a modest increase in the numbers of documents issued. FY 2015 saw the opening of the new Guam Regional Medical City hospital, and an influx of both new physicians to the island and established physicians adding an additional place of practice, both of which increased the number of CSRs issued for that year and for FY 2016. In FY 2014, the final increment of the Sanitary Permit fee increase went into effect; along with a 5% increase in the number of Sanitary Permits came a 26% increase in revenues generated. In June of FY 2017, the Division also implemented its Health Certificate Food Safety Training Course alongside GCC, which led to a slight revenue increase even though there was a slight decrease in the number of Health Certificates issued.

### *PERMIT CENTER ACTIVITIES*

The number of Pre-Operational Inspections conducted in FY 2017 was the highest recorded in the last nine years (**Figure 21**). The face-to-face consultation also recorded an increase in FY 2017; it was the highest since FY 2010. However, phone inquiries dropped significantly in FY 2017; this number was the lowest ever recorded since such data were kept. It is possible that more clients sought face-to-face consultations at the Permit Center instead of phone inquiries.

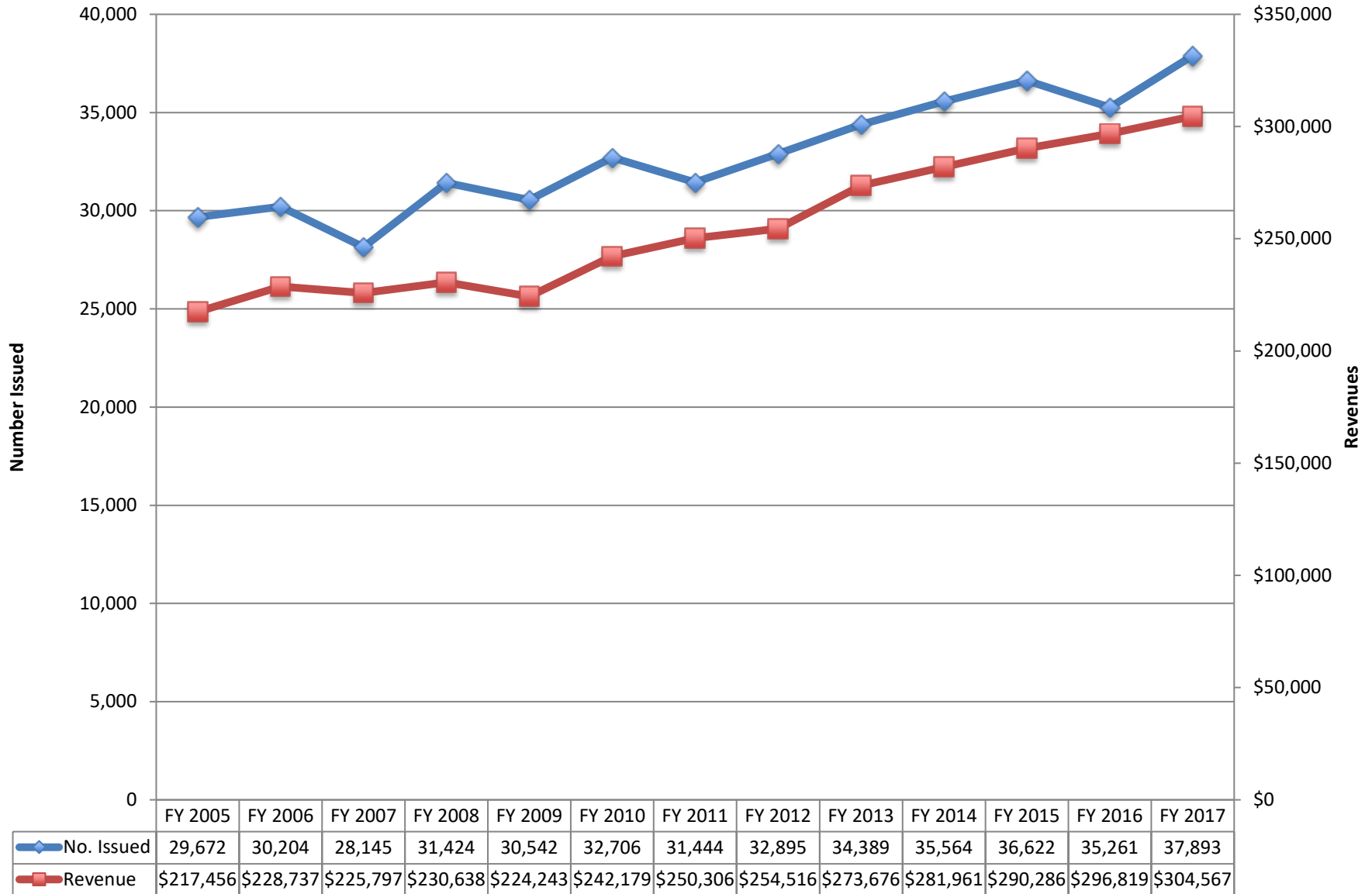
Plan review numbers changed very little from year to year, averaging 40 reviews a year, until FY 2008, when it increased to 407 because of the inclusion of floor plan reviews to the data collected, and continued that increase in FY 2009, FY 2010, and FY 2013. Consultations in FY 2005 and FY 2006 remained at just over 1,000 and then increased another 85% between FY 2006 and FY 2007, before falling in FY 2008, FY 2009, and FY 2013. The initial increase may have occurred because of the announcement of the military buildup, then fallen off due to delays in the buildup schedule. Consultations did increase in FY 2016 by nearly 62% over FY 2015. Phone tracking, which began in FY 2009, more than doubled in FY 2010, then dropped slightly in FY 2011 through FY 2013, then dramatically decreased in FY 2014, due to the phone line being out of order for five months of the year. Phone inquiries increased modestly in FY 2015, then dramatically in FY 2016.

**FIGURE 17. SANITARY PERMITS ISSUED AND REVENUES GENERATED  
(FY 2005 - 2017)**

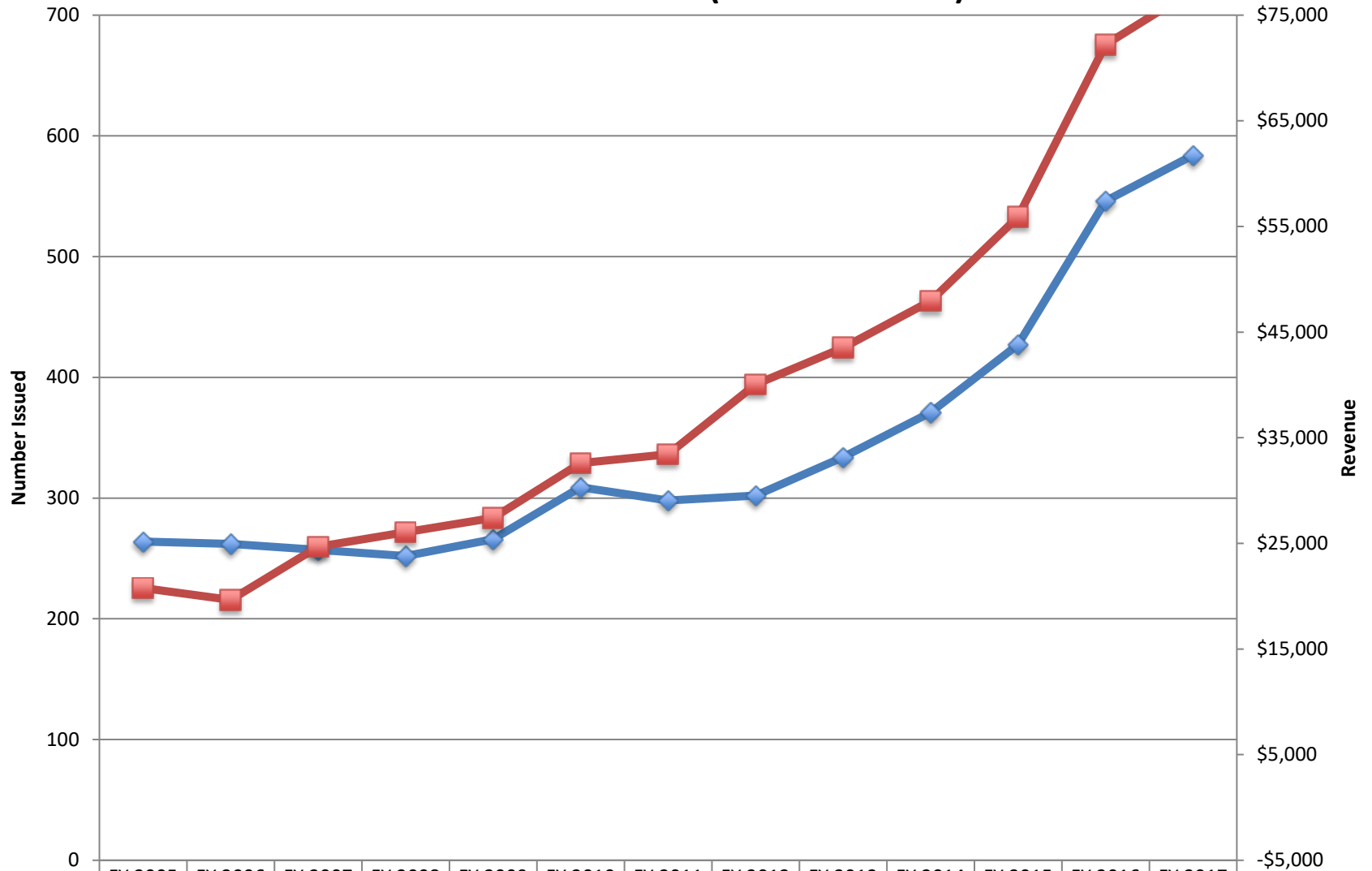




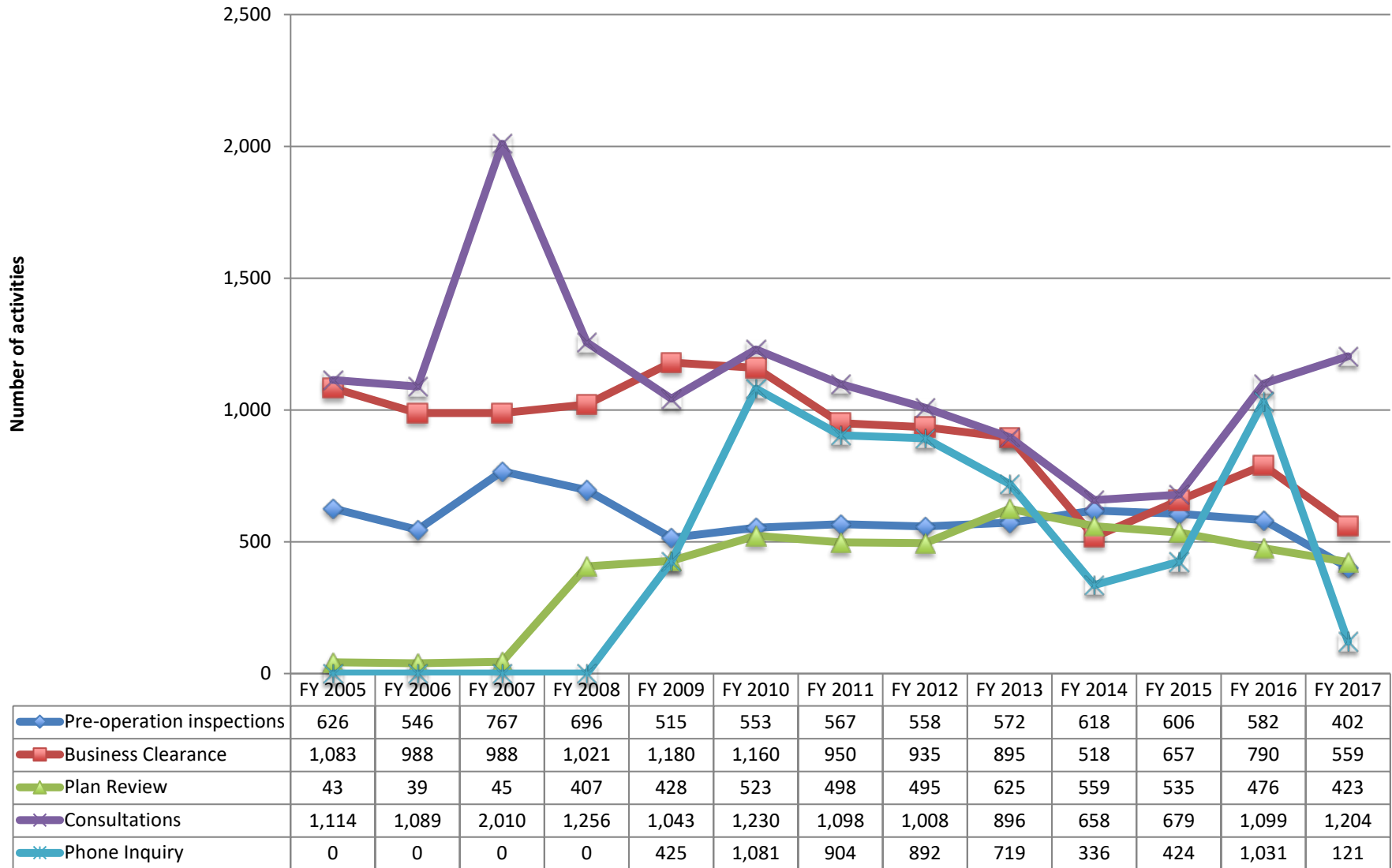
**FIGURE 18. HEALTH CERTIFICATES ISSUED AND REVENUES GENERATED  
(FY 2005 - 2017)**



**FIGURE 19. CONTROLLED SUBSTANCES REGISTRATIONS ISSUED AND REVENUES GENERATED (FY 2005 - 2017)**



**FIGURE 20. PERMIT CENTER ACTIVITIES OF THE DIVISION OF ENVIRONMENTAL HEALTH (FY 2005 - 2017)**



## TRENDS

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### *CONSUMER COMMODITY DETENTIONS*

With the exception of food, the detentions of all consumer commodities decreased from FY 2005 to FY 2006. Detainment of commodities is determined by the officers of the Guam Customs and Quarantine Agency, and changes in the number of detentions may be a reflection of that agency's workload and/or priority. Although the number of food detentions did increase from FY 2005 to FY 2006, it decreased in 2007 before increasing again in FY 2008 (**Figure 22**). Detentions of all commodity types either rose or stayed constant in FY 2008, but food and drug detainments dropped in FY 2009. Detentions for cosmetics and hazardous substances increased in FY 2009, with no medical devices being detained again for FY 2019. All detentions except food and hazardous substances fell in FY 2012, and all detentions decreased in FY 2013 through FY 2017, with the exception of drugs in FY 2014 and hazardous substances in FY 2015.

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### *FULL-TIME EMPLOYEES AVAILABLE TO CONDUCT SANITATION INSPECTIONS*

In the five years from FY 2005 to FY 2009, DEH had an average of 3.8 full-time equivalent field personnel (**Figure 23**). Over that period, DEH averaged 1,873 sanitation inspections a year with the highest number occurring in FY 2006 with 3,161 inspections. Although DEH was able to complete over 2,000 inspections a year from FY 2005 to FY 2006, the Division conducted only 1,406 sanitation inspections in FY 2007, 1,105 in FY 2008, and 892 in FY 2009, which is less than half of those done in previous years. This can be directly attributed to the availability of trained personnel to conduct sanitation inspections and the transfer of veteran staff to other programs of the Division.

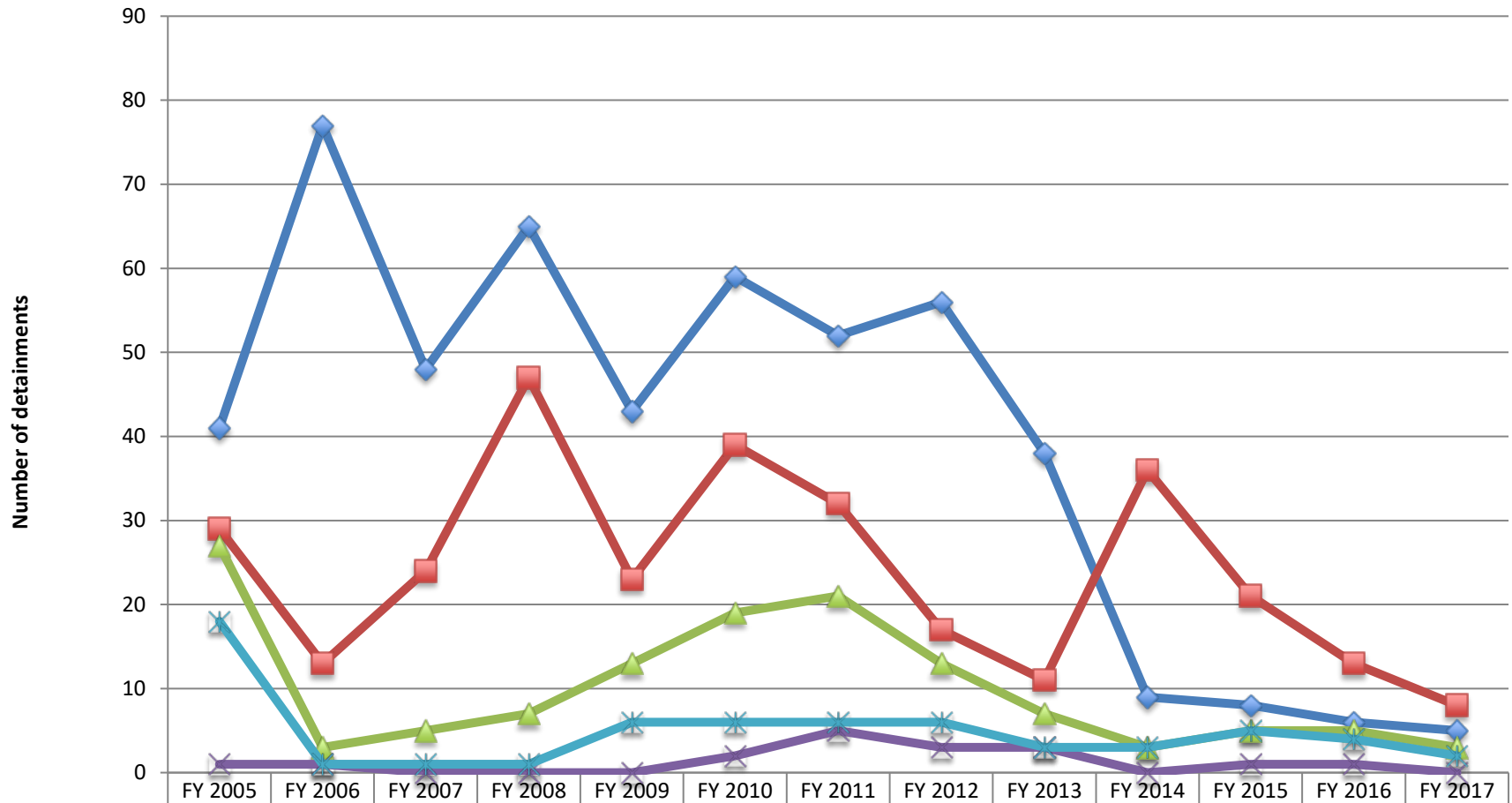
While DEH was able to recruit three additional personnel in FY 2009, these staff needed to complete their training before they could conduct independent inspections. The numbers of inspections conducted increased slightly in FY 2011, despite fewer FTEs. With the return of one staff from medical leave, and the cross-training of staff due to the implementation of a new position series in October of 2012, more employees were available in FY 2013, which resulted in an increase of nearly 31% in inspections conducted. In FY 2014, loss of field personnel, as well as a focus on training the food industry before the enforcement of the Guam Food Code, resulted in fewer available employees and fewer inspections conducted. Both the number of field FTEs and the number of inspections conducted continued to drop in FY 2015. Promotions of two field personnel reduced the number of hours they were in the field, and thus, the number of inspections conducted as well. Recruitment activities resulted in seven EPHO positions being filled, though one was subsequently vacated, in FY 2015. None of the new staff were field-ready by the end of that fiscal year, but their field time increased in FY 2016, resulting in doubling both the number of FTEs and inspections. In FY 2017 the number of available full-time employees to conduct sanitation inspections of health-regulated establishments was 3.0, which was the most since FY 2013. The increase was reflected in the number of sanitation inspections with 1,602, which was the most inspections accomplished by DEH in the last ten years.

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### *PLANS AND SPECIFICATIONS*

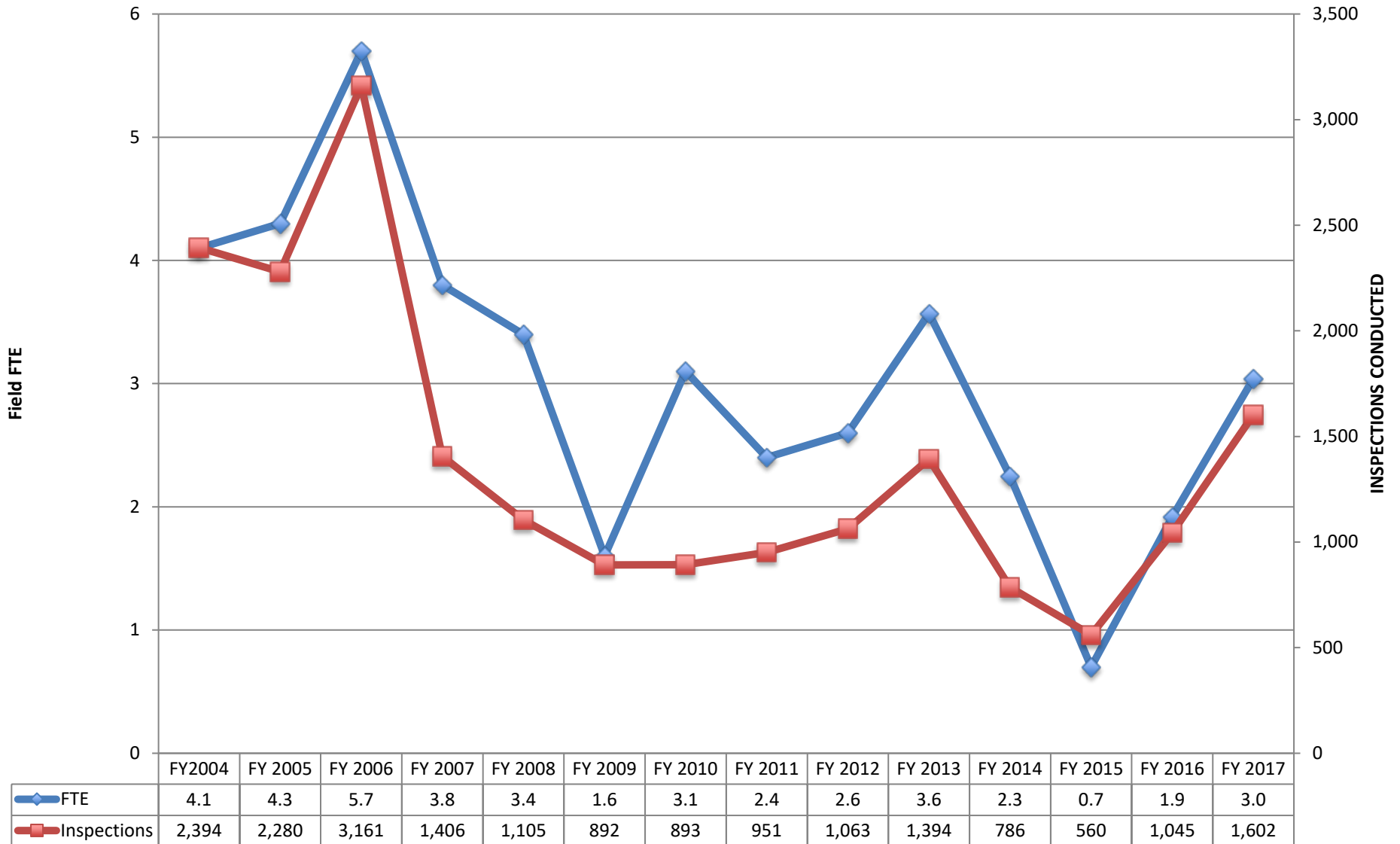
The number of pre-operational inspections conducted each year by the staff of the Plans and Specifications section fluctuated more from the effects of a changing economy than from changes in staffing (**Figure 24**). Regardless of the number of staff, all pre-operational inspections are conducted.

**FIGURE 21. DETAINMENTS OF CONSUMER COMMODITIES BY TYPE BY THE DIVISION OF ENVIRONMENTAL HEALTH (FY 2005 - 2017)**

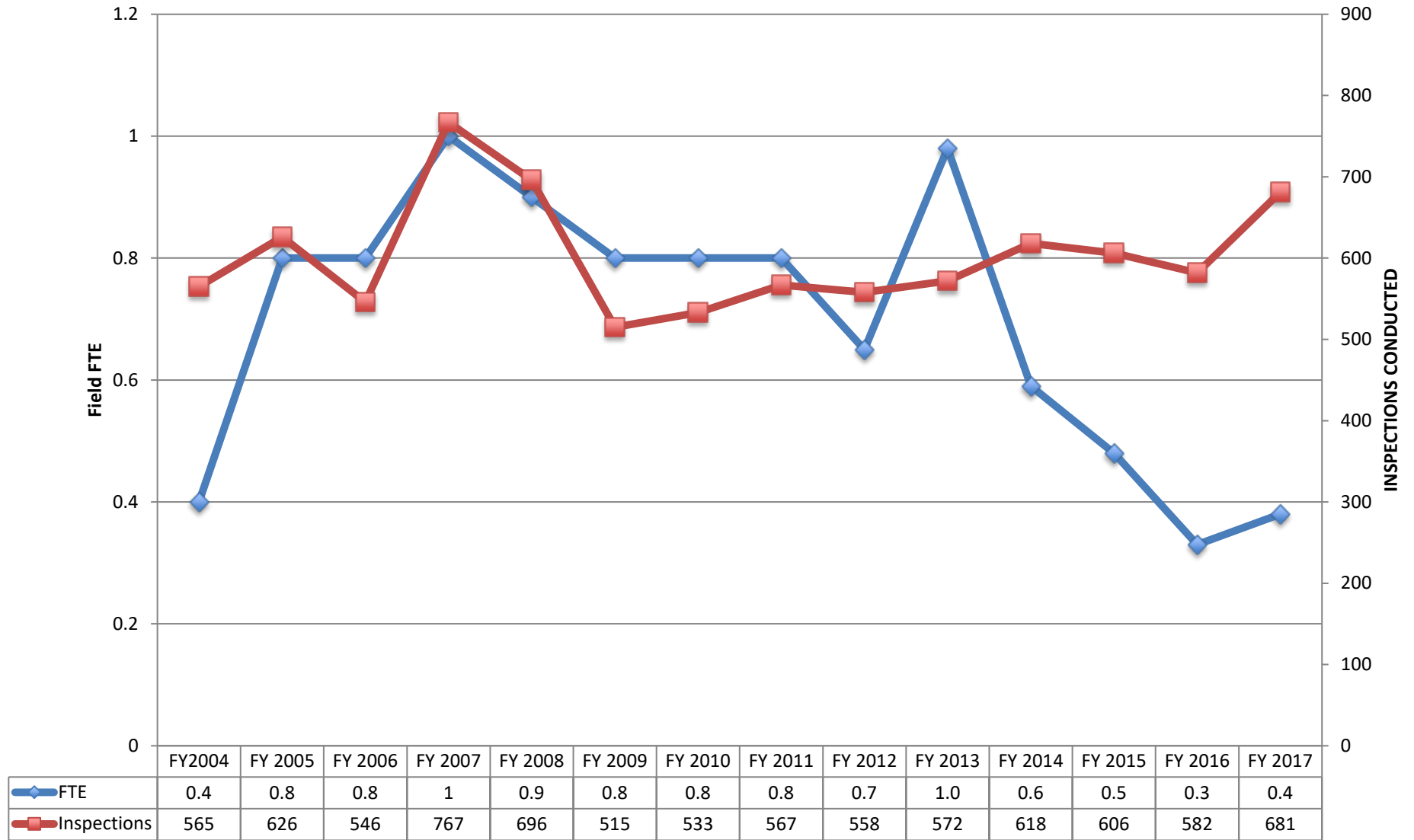


◆ Food	41	77	48	65	43	59	52	56	38	9	8	6	5
■ Drug	29	13	24	47	23	39	32	17	11	36	21	13	8
▲ Cosmetics	27	3	5	7	13	19	21	13	7	3	5	5	3
✕ Medical Devices	1	1	0	0	0	2	5	3	3	0	1	1	0
✕ Hazardous Substances	18	1	1	1	6	6	6	6	3	3	5	4	2

**FIGURE 22. INSPECTIONS BY FIELD FULL-TIME EQUIVALENT EMPLOYEES  
(FY 2005 - 2017)**



**FIGURE 23. INSPECTIONS BY FIELD FTE EMPLOYEES: PLANS & SPECIFICATIONS (FY 2005 - 2017)**





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## *ENVIRONMENTAL PUBLIC HEALTH IMPACT*

The staff of the Division of Environmental Health regularly conduct sanitation inspections of health-regulated establishments and cite observed violations in the inspection reports. As presented in **Figure 25**, in FY 2017, the top five violations observed in retail food facilities (Eating and Drinking Establishments) occurred primarily in temporary food service establishments where potentially hazardous foods were not properly protected from contamination and/or proliferation of potential pathogens. For food manufacturers and processors (Food Establishments), observation of pests was the most common violation during the fiscal year, which were closely followed by requirements associated with toilet facilities, walls, and ceilings (**Figure 26**).

General cleanliness in the kitchen and the rest of the facility was the top two violations most cited at childcare centers by DEH in FY 2017 (**Figure 27**). In another institutional facility, school buildings, the most common violation was associated with walls and ceilings (**Figure 28**).

In cosmetology establishments, such as beauty salons and barbershops, poor sanitation of the facility and its instruments, along with prohibited practices, were the most observed infractions (**Figure 29**) during the fiscal year. Massage Establishments, another facility in the cosmetology category, varied from poor employee hygiene to inadequate toilet facility during the same period (**Figure 30**).

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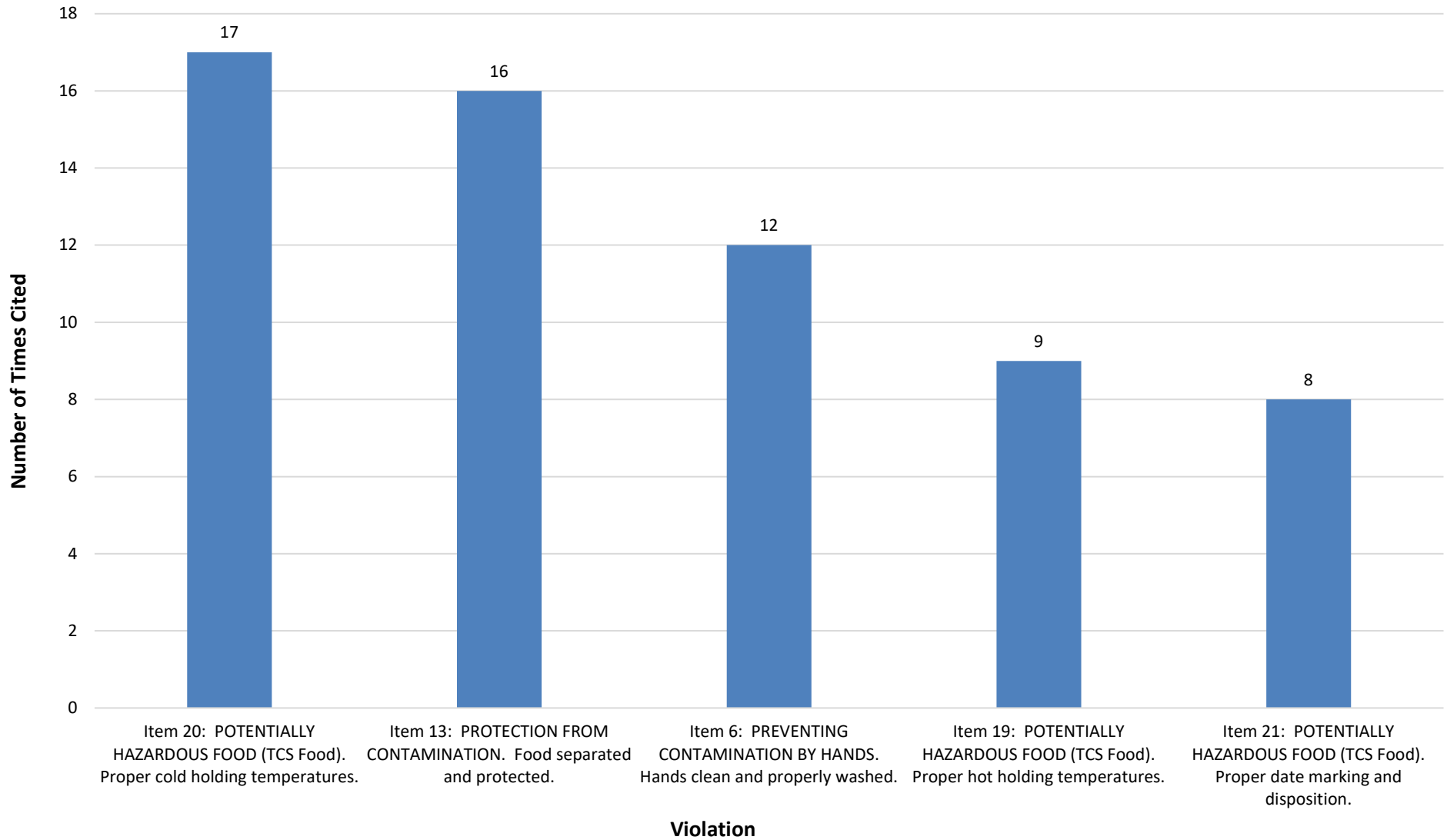
## *GUAM PRESCRIPTION DRUG MONITORING PROGRAM*

The Guam Prescription Drug Monitoring Program (PDMP) has been collecting prescription data from retail pharmacies on Guam since January 2013, and providing reports to pharmacists and prescribers since May of that year. Several pharmacies have uploaded prescriptions dating back to June 2012. The numbers of prescriptions added to the database, and the number of reports run, primarily by pharmacists, have increased each year the program has been in operation (**Figure 31**). The use of the system should lead to the identification of possible drug abuse and diversion.

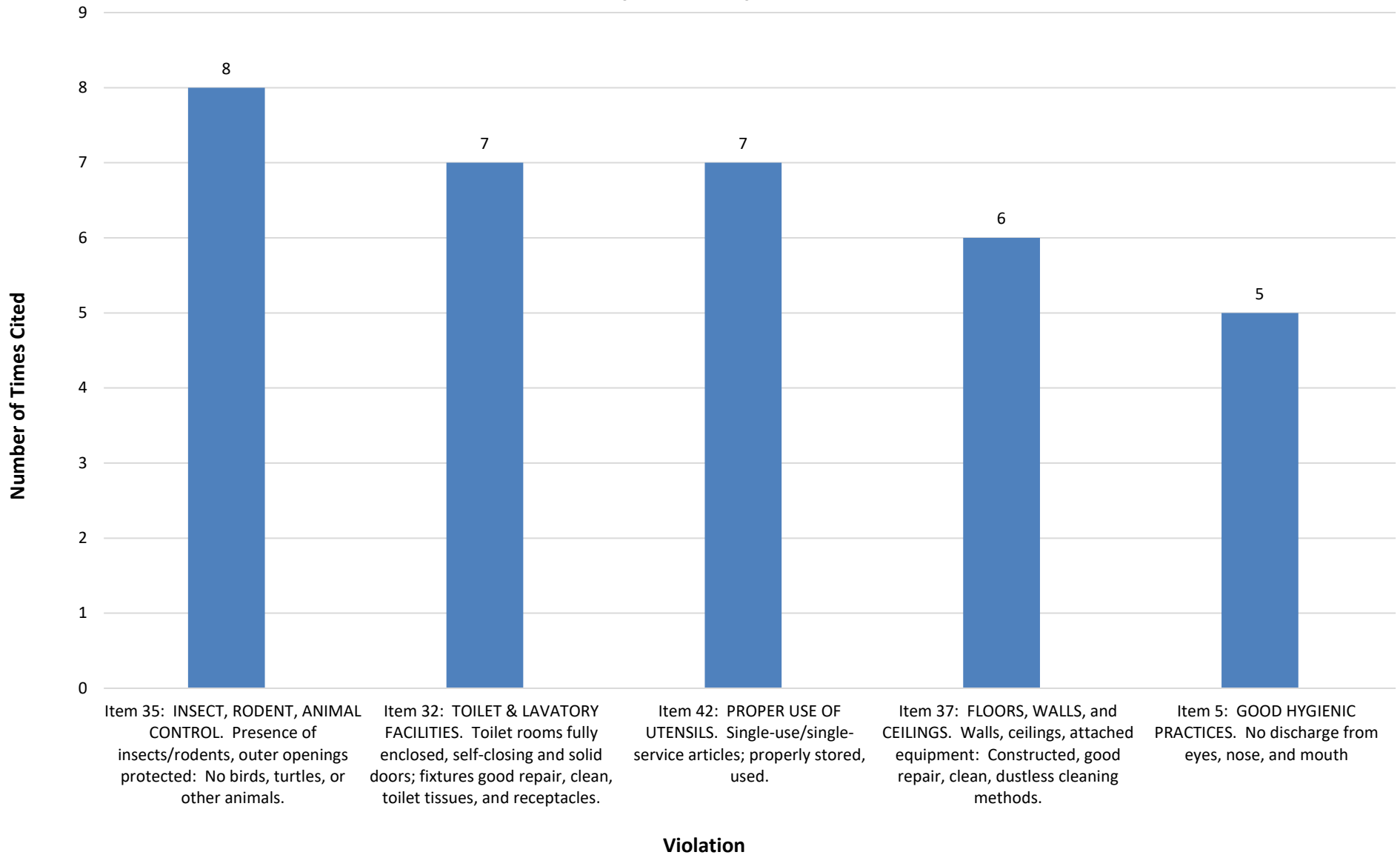
The Division reported in its Fiscal 2016 Annual Report that the PDMP database had technical difficulties because of the system's hardware crash for five months (March 2016 to August 2016). In addition, the Guam PDMP website was not fully operational until September 2016. Thus, the data provided for the Fiscal 2016 report did not capture the full year's data.

**Figure 32** shows the top five controlled substances dispensed from FY 2012 to FY 2017. In FY 2017, there was a decrease in the overall number of prescriptions written for all controlled substances. DEH suspects that this is the result of the opioid crisis that is occurring nationally, and thus the greater awareness and concern locally. Still, oxycodone and codeine continue to be the top three most dispensed controlled drugs on Guam. Promethazine with codeine fell off the top five list in FY 2017 (**Figure 32**), and replaced with zolpidem tartrate (Ambien). Prescriptions for Tramadol was once again the fifth most prescribed controlled substance during this fiscal year. Tramadol is a narcotic-like drug (synthetic opioid), also used for treating moderate to severe pain; it was considered the "safer" alternative to other opioid medications. However, the drug was later scheduled as a controlled drug in 2014 after mounting evidence of withdrawal symptoms. The following year in 2015, after its scheduling, and thus requiring reporting to the Guam PDMP, Tramadol it made the list as one of the top five prescribed drugs.

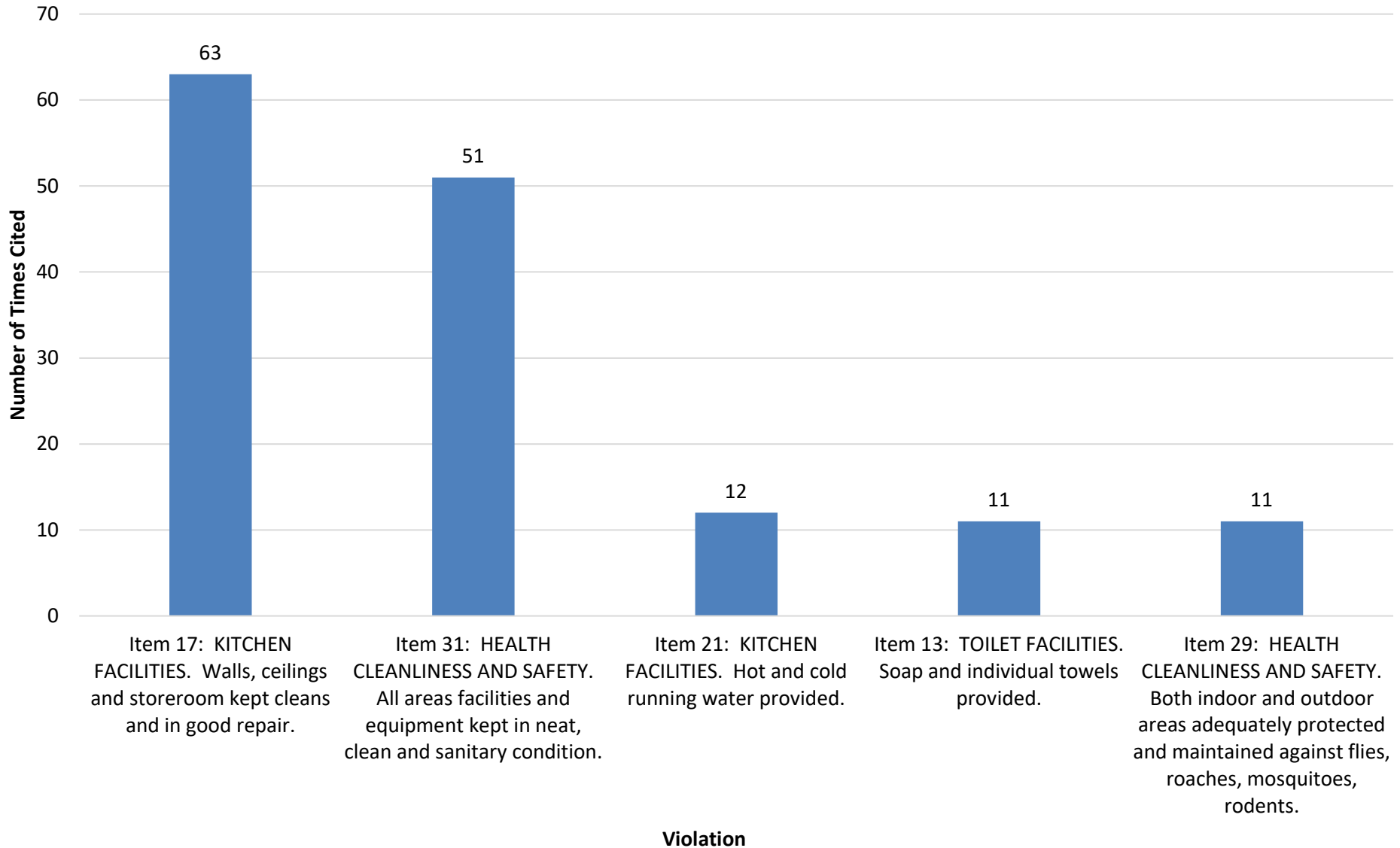
**FIGURE 24. TOP 5 VIOLATIONS IN EATING & DRINKING ESTABLISHMENTS (FY 2017)**



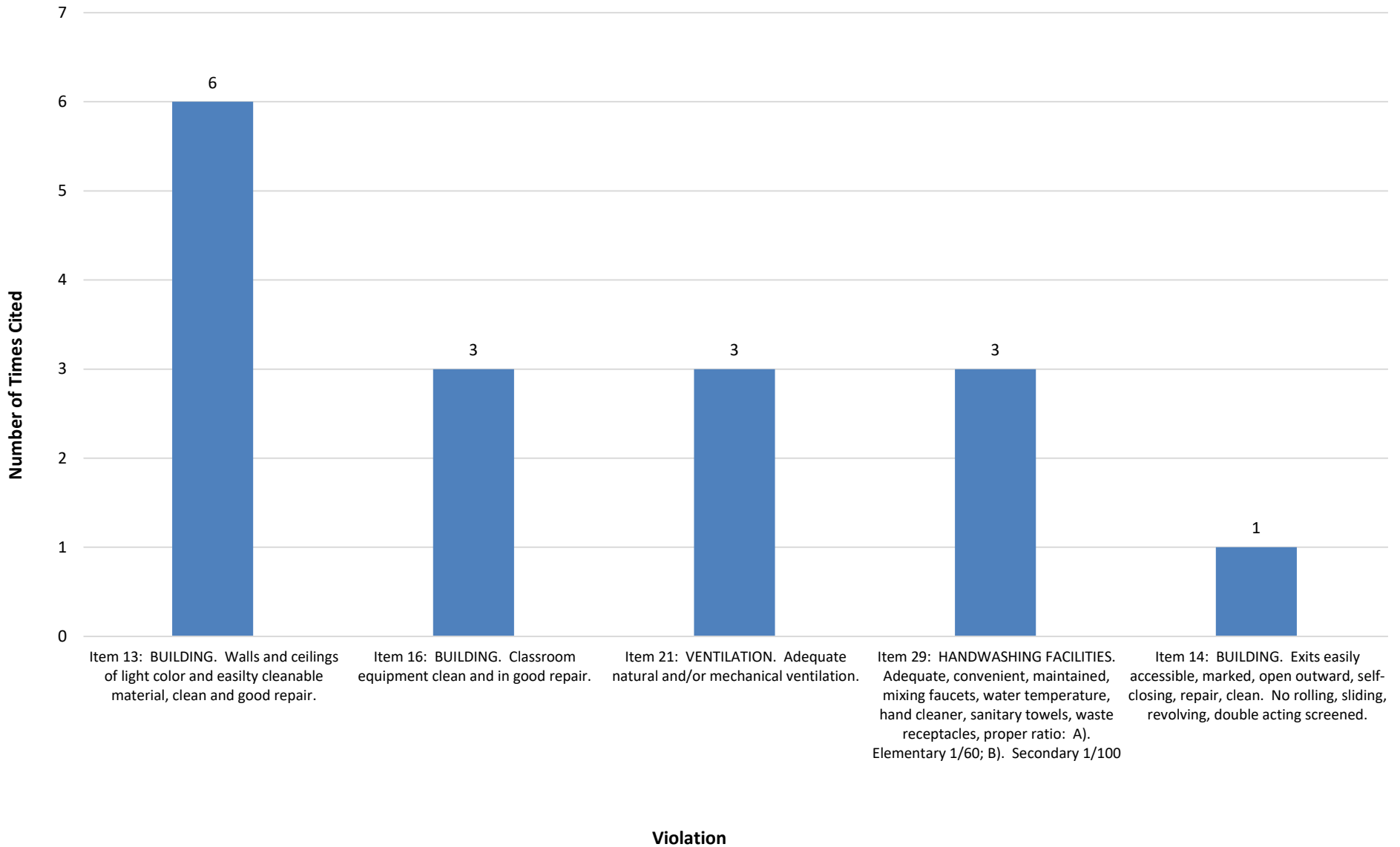
**FIGURE 25. TOP 5 CITED VIOLATIONS IN FOOD ESTABLISHMENTS  
(FY 2017)**



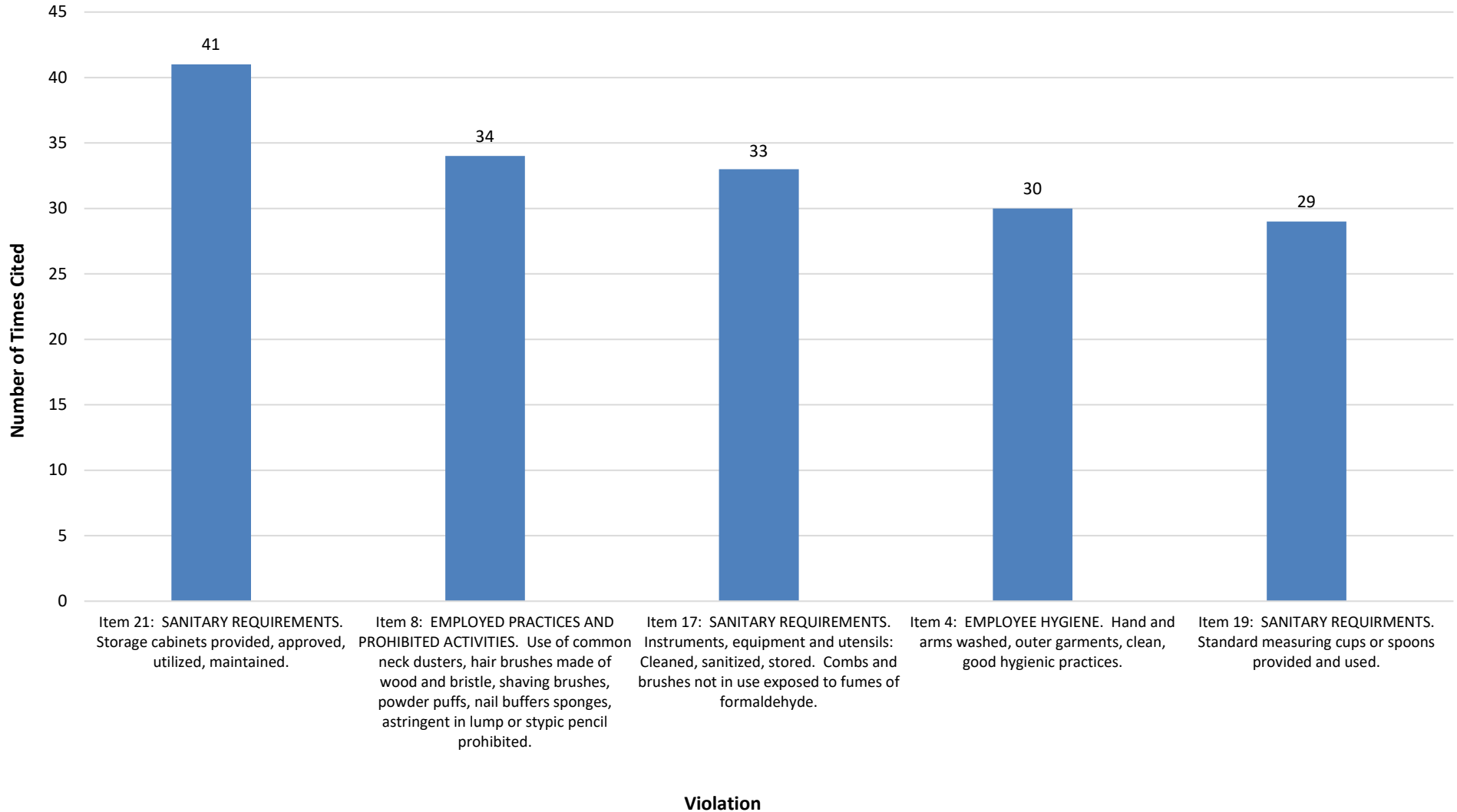
**FIGURE 26. TOP 5 VIOLATIONS IN CHILDCARE CENTERS  
(FY 2017)**



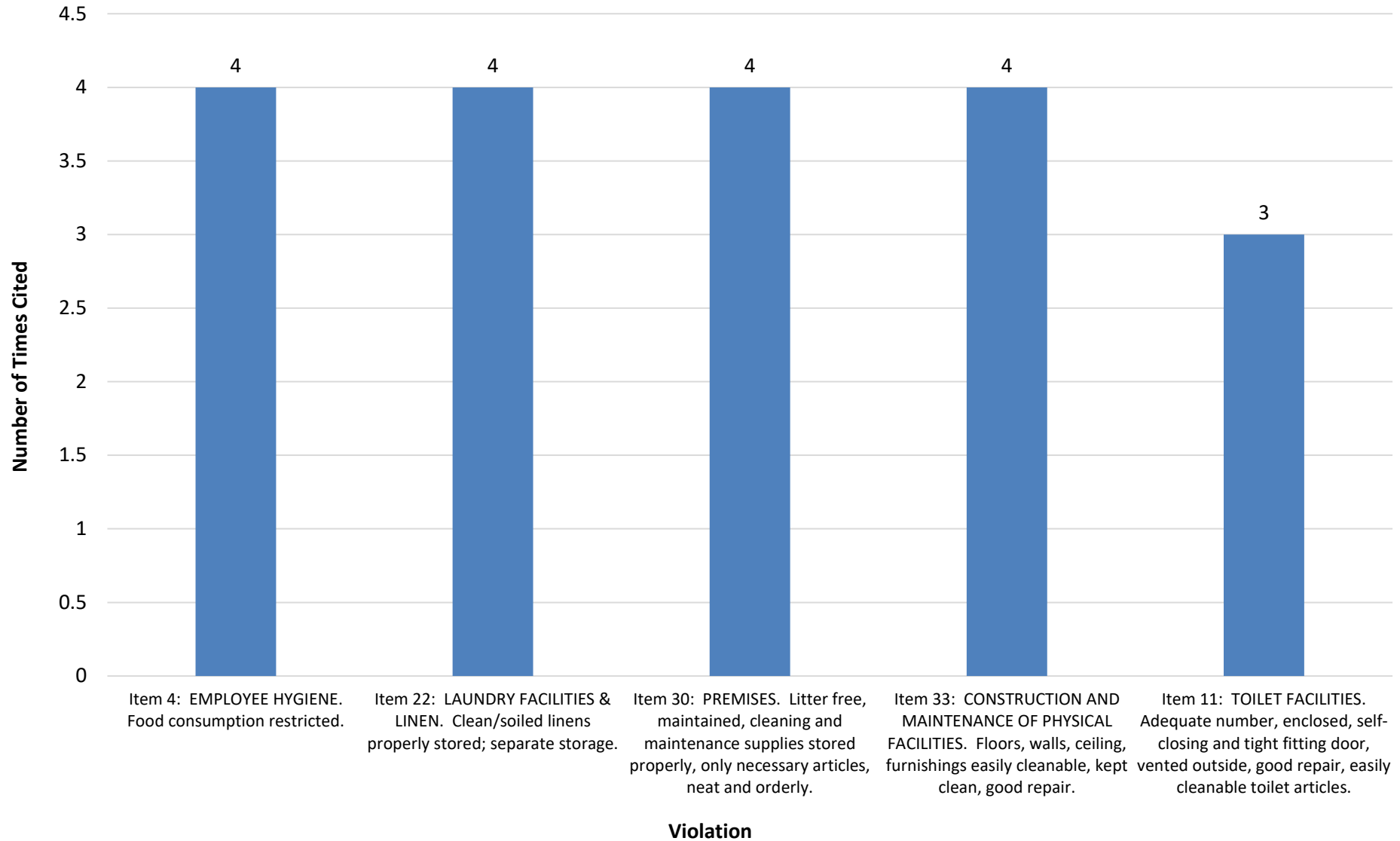
**FIGURE 27. TOP 5 CITED VIOLATIONS IN SCHOOL BUILDINGS  
(FY 2017)**



**FIGURE 28. TOP 5 CITED VIOLATIONS IN BEAUTY & BARBER ESTABLISHMENTS (FY 2017)**

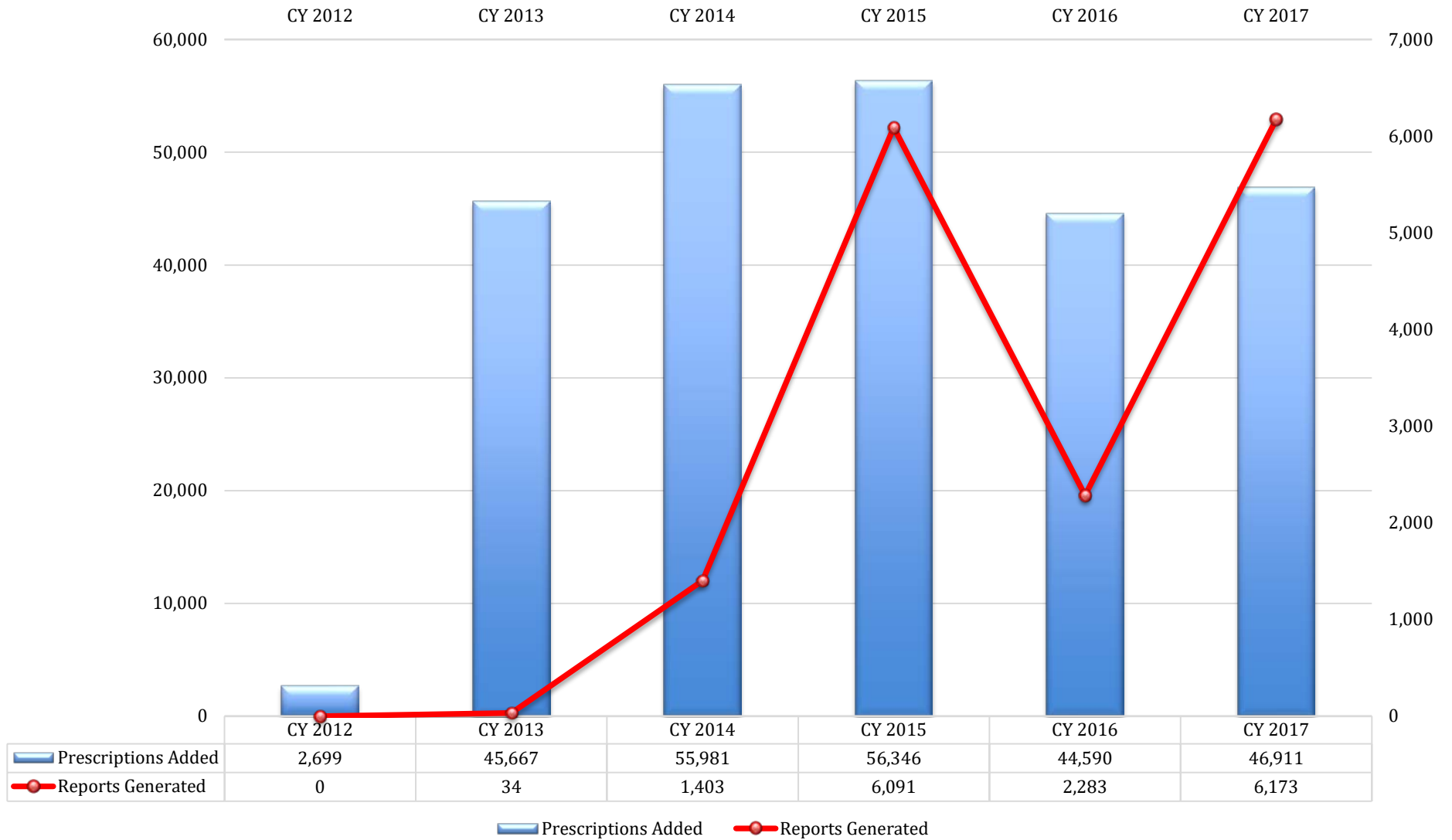


**FIGURE 29. TOP 5 CITED VIOLATIONS IN THERAPEUTIC MASSAGE ESTABLISHMENTS (FY 2017)**





**FIGURE 30. PRESCRIPTIONS ADDED AND REPORTS REQUESTED, PDMP DATABASE (CY 2012 - 2017)**



**FIGURE 31. TOP 5 PRESCRIBED CONTROLLED SUBSTANCES  
(FY 2012 - 2017)**

