



# ANNUAL REPORT

FY 2016

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

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# STAFF PHOTOS 2016



**Seated, from left:** Remy Suva, Rosanna Rabago, M. Thomas Nadeau, Cynthia Naval.  
**Standing, Row 1, from left:** Jerome Garcia, Claire Baradi, Remiliza Oriondo, Terry Barcinas, Katherine Del Mundo, Teresita Muna, Jennifer Mendiola, M. Leilani Navarro. **Standing, Row 2, from left:** Evan Lum, Jeffrey Pinaula, James Perez Cruz.



Deborah Mafnas



†Jeannie Dizon†



Francis Epres



Monica De Vera



Katherine Duenas, Marilou Scroggs,  
Michelle Lastimoza



Derien Mitchell

## ACRONYMNS USED IN THIS REPORT

BCI	Bureau of Compliance and Investigation
BIE	Bureau of Inspection and Enforcement
CCP	Consumer Commodities Program
CDC	U.S. Centers for Disease Control and Prevention
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
MSCP	Mosquito Surveillance and Control Program
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
USDA	U. S. Department of Agriculture



# MISSION

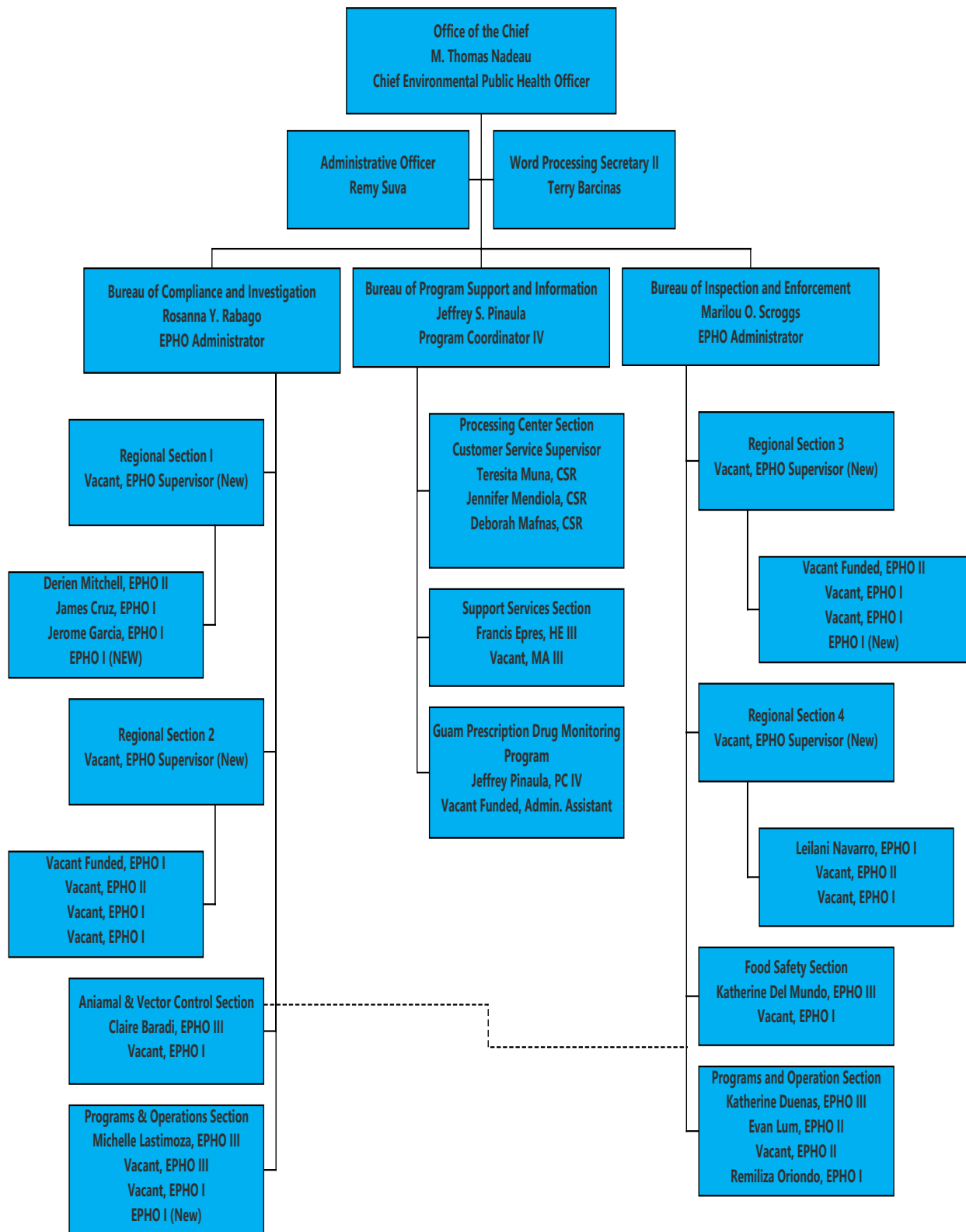
## MISSION STATEMENT

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.

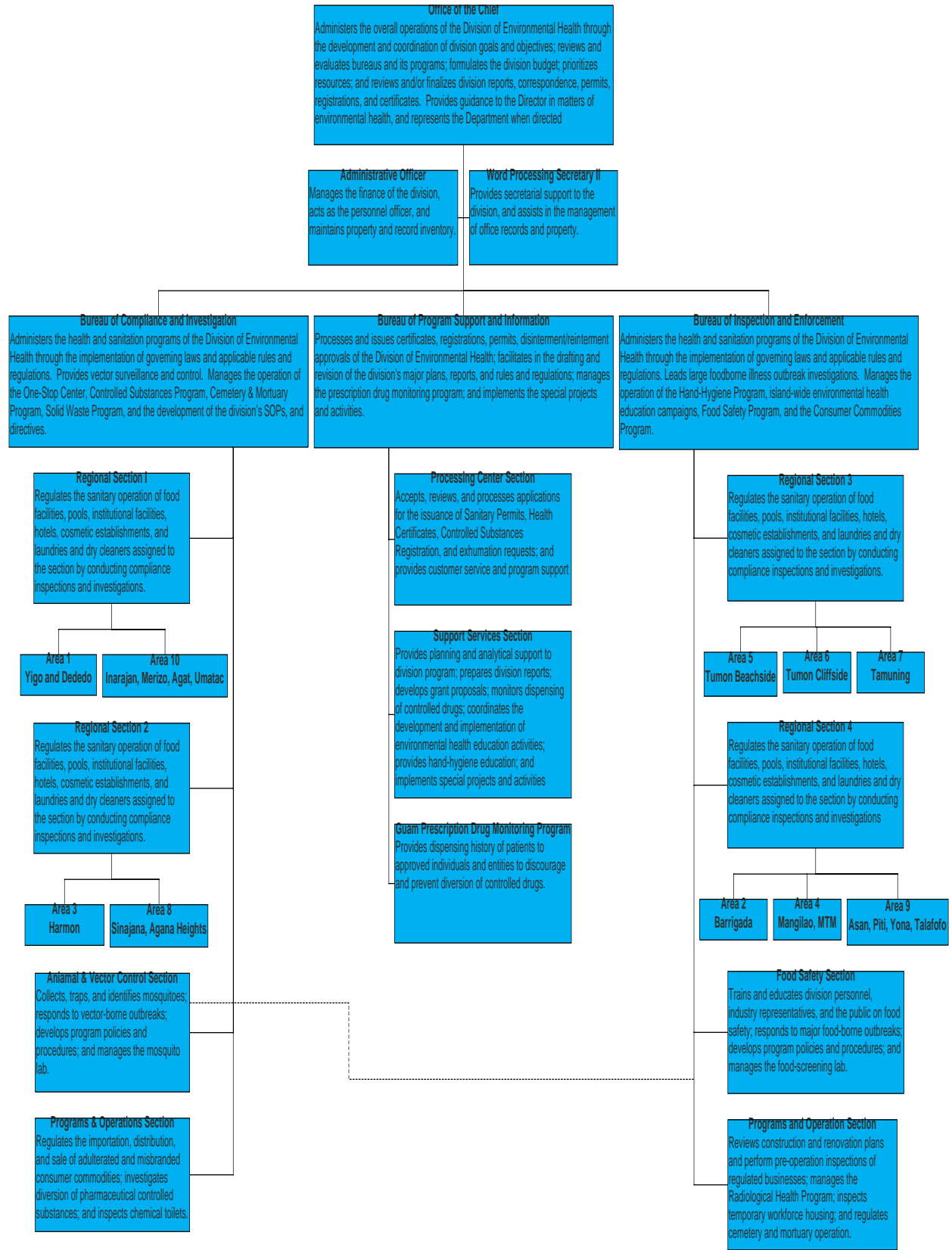
## VISION STATEMENT

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



# DEH FUNCTIONAL CHART



## FY 2016 HIGHLIGHTS

Below are significant highlights of the Division of Environmental Health (DEH) in Fiscal Year 2016.

- There was a net decrease in the number of personnel at DEH during the fiscal year. Two staff left the Division (EPHO-I Duane Dominguez and Customer Services Representative Supervisor Monica DeVera), one staff passed away early in the fiscal year (EPHO-II Jeannie Dizon) and one was on extended medical leave (CSR Deborah Mafnas). Program Coordinator IV Jeffrey Pinaula joined the Prescription Drug Monitoring Program in January of 2016, and EPHO-I Remiliza Oriondo was recruited in July of 2016.
- Temporary establishments participating in the Chamorro Village Wednesday Night Markets and weekend festivals were regulated based on the Guam Food Code. At the Wednesday Night Market, establishments were first assessed and educated with the new regulation, followed by monthly inspections to ensure that the regulations were being followed.
- Because of frequent, scheduled power outages in Dededo, Yigo, and Agat, BCI staff conducted assessments of 21 health-regulated establishments (7 restaurants, 11 retail stores, 2 bakeries, and 1 water manufacturer) in the villages to ensure that precautions were taken to ensure proper food safety. A press release (#2015-098, dated 12/23/15) was issued to remind all health-regulated establishments that they are to implement appropriate measures during outages to protect consumers.
- The Division participated in the 12<sup>th</sup> Festival of the Pacific Arts (FestPac 2016). Prior to the start of the event, DEH provided “Five Food Code Interventions” training to 4 catering facilities and 14 stall stands servicing at the festival, and food safety training for employees of 43 temporary food service establishments. DEH also conducted 43 pre-operation inspections for temporary food service establishments serving at the sites, as well as assessments of the delegates’ lodging sites. The staff also monitored the catering sites, feeding locations, and temporary establishments throughout the two-week event, usually working 12-hour days. DEH staff also conducted source reduction for mosquito breeding sites at all eight lodging sites and three major event sites, and assisted a CDC-contracted vector management team with pesticide spraying at 31 sites. DEH staff also provided hand hygiene education to guests at seven of the eight lodging sites, and operated three mosquito repellent spray booths that provided over 1,000 persons with repellent and mosquito bite prevention information.
- The Processing Center Section (PCS) issued the following number of permits, certificates, and registrations, along with the respective revenue in parentheses: 3,321 Sanitary Permits (\$923,258.46); 35,261 Health Certificates (\$296,819.30); and 546 Guam Controlled Substances Registration Certificates (\$72,220.00). PCS also approved 12 Disinterment and 8 Disinterment-Reinterment requests in FY 2016.
- There were 6 administrative penalties that were served to owners of various health-regulated establishments. A total of \$1,000.00 in monetary penalties were collected and deposited into the General Fund account. One owner requested a hearing, which was set for October 2016. One other establishment has not paid its fine and collection efforts are currently being pursued.

## FY 2016 HIGHLIGHTS

- A total of 18 importations of commodities detained by Guam Customs and Quarantine Agency were acted upon by the Consumer Commodities Program staff. From these shipments, a total of 18 detainments were examined, and were comprised of the following: 3 detainments that were categorized as food-only, none of which were bottled water; 6 involved drug-only items; 1 was cosmetic-only items; 1 involved hazardous substance-only items; and 7 were detainments that were classified in multiple categories, such as food/drug, or drug/hazardous substance. There were no detainments involving medical device-only items. A total of 70,770 pieces of consumer articles were detained this fiscal year. A breakdown by type and amount (in parentheses) are as follow (*Note: Items that can be classified into one or more categories have been counted in all such applicable categories*): Food-related (175), Drug-related (988), Cosmetic-related (2,182), Medical Device-related (104), and Hazardous Substance-related (82). All the detained commodities originated from either Korea or Japan.
- In response to 72 recalls, 2,643 emails were sent to various island retailers and distributors, and 1 press release was issued. The recalls were initiated by the U.S. Food and Drug Administration and the U.S. Department of Agriculture. The press release was issued for recalled food items that were found on Guam.
- The pharmaceutical drug investigation, relative to an Administrative Search Warrant that was executed at a local veterinary clinic during FY 2013, resulted in the issuance of a final order from the Superior Court of Guam judge on March 30, 2016. The case was appealed by the Movant in the Supreme Court of Guam on April 2016.
- The staff of the Controlled Substances Program and the Prescription Drug Monitoring Program participated in the National Prescription Drug Take Back Campaign on 4/30/16 at the Agana Shopping Center in Hagatna 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 expired medications for proper disposal by the U.S. Drug Enforcement Agency (DEA).
- A total of 199 complaints were received in Fiscal Year 2016, with the 3<sup>rd</sup> quarter having the most complaints (66), followed by the 1<sup>st</sup> quarter with 53 complaints, the 4<sup>th</sup> quarter with 42, and the 2<sup>nd</sup> quarter with 38. Added to these complaints were 4 carried over from Fiscal Year 2014 and 56 carried over from Fiscal Year 2015 that were either pending corrective action or follow-up by DEH staff. One hundred seventy-nine (149) cases were closed this fiscal year, and 80 complaints pending corrective action were carried over into Fiscal Year 2017.
- The Division conducted a total of 1,045 sanitation inspections of 488 different regulated facilities. This was an increase of 86.6% over the number of inspections conducted in FY 2015. Of the 1,045 inspections conducted, 387 were of temporary food service establishments (37.0%), 196 were of stall stands (18.8%), 152 were of child care facilities (14.5% of inspections), and 60 were of restaurants (5.7%). However, the increase was still less than 10% of the total (~12,000 inspections) mandated by law.
- A press release was issued to inform all retail food establishments that effective June 1, 2016, a manager or supervisor on duty must possess either a Certificate of Manager's Certification from the Guam Community College or other third-party entity recognized

## FY 2016 HIGHLIGHTS

by DEH. The revised Health Certificate regulations also extended the validity of the Manager's Certification from three years to five.

- A press release was issued to inform all retail food establishments that effective June 15, 2016, the new Guam Food Code forms would be implemented:
  - Form A: Application for Sanitary Permit;
  - Form B: Supplemental Application for Food Establishment;
  - Form C: GFC Variance Application;
  - Attachment C-1: Proposed Variance Form;
  - Bare-hand Contact Application; and
  - Using Time as a Public Health Control Application.

In preparation for the implementation, DEH partnered with the Small Business Development Center (SBDC) and provided three separate trainings to the industry on how to complete the new forms. With the implementation of the GFC Forms, all requirements of the GFC are now in full effect.

- DEH held its 1<sup>st</sup> Annual Guam Environmental Public Health Education Month (GEPHEM) in September 2016. The celebration began with the proclamation signing by the Lieutenant Governor on August 30, 2016. GEPHEM replaced the Annual Guam Food Safety Education Month, which was held the previous ten years, so to focus on other environmental health programs of DEH. A poster contest was held and a total number of 1,763 students participated from the island's public and private elementary schools. On September 24, 2016, GEPHEM concluded with a fair that was held at the Micronesia Mall Center Court, where static displays on mosquito bite prevention and control and all the poster contest entries were displayed. Awards were presented to the winners of the contest.



Photo 1. Lieutenant Governor Ray Tenorio signs the Proclamation declaring September 2016 as the 1st Annual Guam Environmental Public Health Education Month (Source: C. Naval, 8/30/16)

## RESOURCES

The Division of Environmental Health (DEH) received a total budget of \$2,227,350.00 to fund personnel and operations of the Division in Fiscal Year 2016 (**Table 1**). This was not inclusive of the federal grant funds of the Guam Prescription Drug Monitoring Program (\$234,978), the Department of the Interior Technical Assistance Program (\$106,092), and the Epidemiology and Laboratory Capacity Grant (\$42,705). Of the total appropriated funds:

- \$820,127 was from the General Fund (GF) through Legislative appropriation for FY 2016.
- \$1,283,146 was from the Environmental Health Fund (EHF) through Legislative appropriation for FY 2016
- \$124,077 was from the Sanitary Inspection Revolving Fund (SIRF) through Legislative appropriation for FY 2016.

Of the total amount appropriated, \$1,906,312 (86%) was released through various allotments to DEH for use during FY 2016; the rest were placed on reserve.

There was a net decrease in the number of personnel in DEH during the fiscal year. Customer Services Representative Supervisor Monica DeVera resigned in May of 2016, and EPHO-I Duane Dominguez relocated off-island in July of 2016. EPHO-II Jeannie Dizon passed away early in the fiscal year and CSR Deborah Mafnas continued on extended medical leave throughout the fiscal year. Program Coordinator IV Jeffrey Pinaula joined the Guam Prescription Drug Monitoring Program in January of 2016, and EPHO-I Remiliza Oriondo was recruited in July of 2016.

By the end of the fiscal year, there were 21 staff, including one who is funded from the Division of Public Welfare's Child Care Development Fund Grant, to implement over 20 legislative mandates and executive orders. Out of these 21 staff, 11 are administrative staff, including the three senior EPHO positions, and 10 are field personnel. The 21 staff were short of the number needed to fully execute the numerous programs and operations of DEH. As a result, the Division prioritized its operation based on greatest public health threat, public need and demand, and available personnel. The staffing pattern for DEH is presented in **Table 2**.

### PERSONNEL

Out of \$1,656,168 appropriated for this purpose, the Division expended a total of \$1,187,034.85 (71.7%) to fund personnel for this fiscal year. The appropriations originated from the following: \$756,133.00 from the FY 2016 General Fund, \$847,827.00 from the FY 2016 EHF, and \$52,208.00 from the FY 2016 SIRF.

### CONTRACTUAL

The Division was budgeted a total of \$172,265.00 for contractual services in Fiscal Year 2016 (**Table 3**). The General Fund had \$34,630.00 budgeted for contractual services, of which \$25,142.79 was expended for copier lease agreements, vehicle maintenance, BPA for newspaper ads, course and examination fees for Certified Pool Operator and Certified Pool Inspector certifications, venue for the Guam Food Safety Task Force (GFSTF) quarterly meetings, transfer of the photocopier and other equipment from Central Public Health to the Guam Environmental Public Health Laboratory, and printing services. The EHF FY 2016 budget for contractual services was \$115,585.00, of which \$77,267.82 was expended. These contractual services included: copier lease agreement, production of dry ice, printing and translation services for the Health Certificate training course, staff uniforms, promotional items for the GEPHEM, movers for the GEPHEM, hotel venues for the GFSTF quarterly meetings, and training in the CIFOR

# RESOURCES

guidelines and temporary food service establishment inspections, GPHEM Media Package, and a media package for the creation of artwork and storybooks for the Division's mascots (Miss Skeeta and the Food Guards). The SIRF had \$22,050.00 appropriated for contractual services and a total of \$8,743.56 was expended for data services for the 19 tablets, and field uniforms for the mosquito surveillance team.

<b>DIVISION OF ENVIRONMENTAL HEALTH FUNDING</b>					
<b>GENERAL FUND (FY 2016 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	\$531,718.00	\$452,710.00	\$452,813.68	\$78,904.32
112	Overtime/Special Pay	\$19,925.00	\$19,925.00	\$16,180.34	\$3,744.66
113	Benefits	\$204,490.00	\$174,701.00	\$166,277.03	\$38,212.97
	Total Personnel Services	\$756,133.00	\$647,336.00	\$635,271.05	\$120,861.95
220	Travel Off-Island/Local Mileage Reimbursement	\$21,864.00	\$21,500.00	\$18,293.53	\$3,570.47
230	Contractual Services	\$34,630.00	\$29,061.00	\$25,142.79	\$3,570.47
233	Office Space Rental	\$0.00	\$0.00	\$0.00	\$0.00
<b>O.C.</b>	<b>Operations</b>	<b>Appropriation</b>	<b>Allotments</b>	<b>Expenditures</b>	<b>Lapse</b>
240	Supplies & Materials	\$7,500.00	\$6,000.00	\$2,511.57	\$4,988.43
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	\$63,994.00	\$56,561.00	\$45,947.89	\$18,046.11
	<b>Subtotal</b>	<b>\$820,127.00</b>	<b>\$703,897.00</b>	<b>\$681,218.94</b>	<b>\$138,908.06</b>
<b>ENVIRONMENTAL HEALTH FUND (FY 2016 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	\$558,379.00	\$474,622.00	\$389,677.35	\$168,701.65
112	Overtime/Special Pay	\$0.00	\$0.00	\$0.00	\$0.00
113	Benefits	\$289,448.00	\$246,031.00	\$151,378.79	\$138,069.21
	Total Personnel Services	\$847,827.00	\$720,653.00	\$541,056.14	\$306,770.86
<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	\$25,000.00	\$24,250.10	\$6,999.90
230	Contractual Services	\$115,585.00	\$98,247.00	\$77,267.82	\$38,317.18
233	Office Space Rental	\$0.00	\$0.00	\$0.00	\$0.00
240	Supplies & Materials	\$44,950.00	\$41,395.00	\$31,203.35	\$13,746.65
250	Equipment	\$8,200.00	\$8,200.00	\$6,067.30	\$2,132.70
361	Power Utility	\$150,000.00	\$127,500.00	\$0.00	\$150,000.00
362	Water Utility	\$50,000.00	\$42,500.00	\$21,000.00	\$29,000.00
363	Telephone	\$3,750.00	\$0.00	\$0.00	\$3,750.00
450	Capital Outlay	\$31,584.00	\$31,584.00	\$29,521.23	\$2,062.77
	Total Operations	\$435,319.00	\$374,426.00	\$189,309.80	\$246,009.20
	<b>SUBTOTAL</b>	<b>\$1,283,146.00</b>	<b>\$1,095,079.00</b>	<b>\$730,365.94</b>	<b>\$552,780.06</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	\$38,506.00	\$32,730.00	\$7,136.00	\$31,370.00
112	Overtime/Special Pay	\$0.00	\$0.00	\$0.00	\$0.00
113	Benefits	\$13,702.00	\$11,647.00	\$3,571.66	\$10,130.34
	Total Personnel Services	\$52,208.00	\$44,377.00	\$10,707.66	\$41,500.34
<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	\$14,403.00	\$8,800.00	\$8,105.93	\$6,297.07
230	Contractual Services	\$22,050.00	\$18,743.00	\$8,743.56	\$13,306.44
240	Supplies & Materials	\$10,416.00	\$10,416.00	\$7,284.82	\$3,131.18
250	Equipment	\$25,000.00	\$25,000.00	\$18,408.13	\$6,591.87
	Total Operations	\$71,869.00	\$62,959.00	\$42,542.44	\$29,326.56
	<b>SUBTOTAL</b>	<b>\$124,077.00</b>	<b>\$107,336.00</b>	<b>\$53,250.10</b>	<b>\$70,826.90</b>
	<b>GRAND TOTAL</b>	<b>\$2,227,350.00</b>	<b>\$1,906,312.00</b>	<b>\$1,464,834.98</b>	<b>\$762,515.02</b>

Table 1. FY 2016 appropriations to the Division of Environmental Health.



# 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	Vacant (Scroggs, Marilou O.)
2	6344	EPHO III	Baradi, Claire
3	6354	EPHO I	Duenas, Katherine
4	6352	EPHO II	Vacant (Dizon, Jeannie M.)
5	6518	Planner IV	Naval, Cynthia L.
6	6228	Management Analyst III	Vacant (Barrido, Danilo L.)
7	6348	WP Secretary II	Barcinas, Terry
8	6357	Customer Services Representative	Muna, Teresita S.
9	6461	Customer Services Representative Supervisor	Vacant (Devera, Monica N.)
10	6337	EPHO III	Lastimoza, Michelle
11	6322	EPHO I	Navarro, Maria Leilani
<b>General Fund (5100A161740CE001)</b>			
<b>No.</b>	<b>Position Number</b>	<b>Position Title</b>	<b>Name of Incumbent</b>
10	6337	EPHO III	Lastimoza, Michelle
11	6322	EPHO I	Navarro, Maria Leilani
12	6314	EPHO I	Garcia, Jerome
13	6578	Administrative Assistant	Vacant (M. Cruz, PC I)
14	6300	EPHO III	Vacant (9/8/06)/B. Barcinas
15	6305	EPHO III	Vacant (12/1/05)/R. Contreras
16	6328	EPHO II	Vacant (7/8/02)/C. Holloway
17	6313	EPHO I	Vacant (11/15/02)/M. Tablante
18	6299	EPHO II	Vacant (9/29/04)/ J. Quichocho
19	6361	EPHO I	Vacant (1/11/02)/G. Borja
20	6315	EPHO I	Vacant (3/14/02)/G. Mendiola
21	6317	EPHO I	Vacant/Never Filled
22	6318	EPHO I	Vacant/Never Filled
23	NEW	EPHO I	Vacant/New
24	NEW	EPHO I	Vacant/New
25	NEW	EPHO I	Vacant/New
<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, Masatomo T.
2	6091	EPHO Administrator	Scroggs, Marilou
3	6182	EPHO I	Vacant (Dominguez, Duane)
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	Lum, Evan
11	6092	EPHO III	Del Mundo, Katherine U.
12	6165	Health Educator III	Epres, Francis V.
<b>Sanitary Inspection Revolving Fund (5638A161740CE210)</b>			
<b>No.</b>	<b>Position Number</b>	<b>Position Title</b>	<b>Name of Incumbent</b>
1	6226	EPHO I	Oriondo, Remiliza
<b>Child Care Development Fund (5101H161732EI107)</b>			
<b>No.</b>	<b>Position Number</b>	<b>Position Title</b>	<b>Name of Incumbent</b>
1	6316	EPHO Administrator	Rabago, Rosanna Y.
<b>Guam Prescription Drug Monitoring Program (5101H161740CE101)</b>			
<b>No.</b>	<b>Position Number</b>	<b>Position Title</b>	<b>Name of Incumbent</b>
1	6050	Program Coordinator IV	Pinaula, Jeffrey S.

**Table 2. Staffing pattern of the Division of Environmental Health at the end of FY 2016.**

# RESOURCES

<b>CONTRACTUAL</b>		
<b>General Fund FY2016</b>		<b>Expenditures</b>
Xerox Corp	Copier Lease Agreement	\$5,548.56
Nissan/United Tire/One-Stop	Vehicle Maintenance	\$7,500.00
PDN/Marianas Variety	BPA for newspaper ad	\$4,000.00
DEWITT	Shredding Services	\$1,888.00
DEWITT	Moving Services	\$1,200.00
American Printing/	Printing Services	\$655.00
GCC/Natl Pool	Procurement training/Cert Pool/Spa	\$2,548.00
Pacific Star	Qtrly Training venue for the GFSTF Meeting	\$1,425.50
Xerox Corp	To move the Xerox copier machine to the lab	\$377.73
<b>SUBTOTAL</b>		<b>\$25,142.79</b>
<b>Environmental Health Fund FY2016</b>		<b>Expenditures</b>
Xerox Corp.	Maintenance Service	\$9,870.44
Island Equipment	Production of Dry Ice	\$275.00
AMCA	Membership Dues for Claire Baradi	\$130.00
Graphic Center/American Printing/Copy Express	Printing Services/Translation Services	\$6,140.00
Paul's/Bic's	Uniforms/Blazers	\$2,326.75
Pacific Star	Hotel Venue for GFSTF Quarterly Meeting	\$467.50
Dewitt	Moving Services	\$900.00
Saitech Solutions	Repair of Printers and Shredder	\$370.00
ADZTech	GPHEM Media Package	\$7,540.00
Ideal Advertising	Media Package for the creation of artwork for mascots	\$13,890.00
Pacific Star	Venue for CIFOR and TFSE Training	\$3,500.00
Journal Vouchers	Drug testing/ESRI License	\$652.83
Vernon Co./ERC/Loco Promo/Promo Specialties/Horizon Pacific	1st Annual GPHEM Promo Items	\$31,205.30
<b>SUBTOTAL</b>		<b>\$77,267.82</b>
<b>DPHSS SIRF FY2016</b>		<b>Expenditures</b>
GTA	Data Services for 19 tablets	\$3,365.15
Paul's/Code /Creativitees/Loco Promo	Uniforms for Mosquito Surveillance team	\$5,378.41
<b>SUBTOTAL</b>		<b>\$8,743.56</b>
<b>Grand Total</b>		<b>\$111,154.17</b>

**Table 3. Contractual services obtained by the Division of Environmental Health in FY 2016.**

## SUPPLIES AND MATERIALS

A total of \$62,866.00 from the General Fund (\$7,500), EHF (\$44,950), and SIRF (\$10,416) was appropriated for supplies and materials (**Table 4**) in Fiscal Year 2016. There was \$2,511.57 expended from the General Fund for office supplies and fuel for the official vehicles; \$31,203.53 from the EHF for office and laboratory supplies; and \$7,284.82 from the SIRF, also for laboratory supplies. The procured supplies consisted of alcohol prep pads, pool and spa test strips, larval trays, serological pipettes, surgical gloves, sterile spoons, halogen light bulbs, microbiology books, storage racks, sampling kits, and sterile tubes and spoons. FY 2016 expenditures for supplies and materials totaled \$40,999.92.

# RESOURCES

<b>SUPPLIES</b>		
<b>General Fund FY2016</b>		<b>Expenditures</b>
TENDA/National Office Supplies	Office Supplies	\$1,723.95
Shell Guam	Fuel Charges	\$787.62
	<b>SUBTOTAL</b>	<b>\$2,511.57</b>
<b>Environmental Health Fund FY2016</b>		<b>Expenditures</b>
Shell Guam	Fuel Charges	\$1,782.15
American Printing	Office Supplies	\$545.00
Benson Guam	Office Supplies	\$1,620.94
Comm Pacific	Back-up Tapes	\$1,257.60
Cost-U-Less	Office Supplies	\$74.95
DMR	Back-up Tapes	\$1,550.00
ERC	Office Supplies	\$326.69
Graphic Center	Office Supplies	\$90.00
Guam Modern Office Supplies	Office Supplies	\$89.00
JMI Edison	Lab Supplies - sterile spoons, halogen light bulbs,	\$218.28
M.D. Wholesale	Lab Supplies - sampling kits, test tube rack, ice packs, sterile containers, non-sterile self-sealing plastic bags, labels and waterproof tags, tamper evident seals, matches, anti-fatigue hygienic floor mats, microbiology books, petri dishes w/ lids, biohazard bags and holders, micro slide box, disposable loops, uniwire half racks, cryotube vials, storage racks, foodborne infections/fungi and food spoilage	\$8,085.99
MedPharm	Lab Supplies - alcohol, sterile tubes, sterile swabs, plain-end glass tubes w/ color codes, reusable laboratory bottles, optical lens cleaner, easy to close whirl-pak bags, petri dish rack, micro slide folder, roll adhesive or masking tape	\$2,798.72
MedQuest	Lab Supplies - sterile sampling utensils set, sterile bags, pocket digital thermometer, reusable glass tubes w/ phenolic screw; thermo scientific immersion oil,	\$4,026.00
Micro School Supplies	Office Supplies	\$276.44
National Office Supply	Office Supplies - Papers, HP printer inks, binders	\$4,559.81
Options PC Supply	Office Supplies	\$760.00
School Essentials	Office Supplies	\$335.46
Standard Office Supplies	Office Supplies	\$165.04
TENDA	Office Supplies	\$2,510.46
Xerox Corp	Office Supplies	\$131.00
	<b>SUBTOTAL</b>	<b>\$31,203.53</b>
<b>Sanitary Inspection Revolving Fund FY2016</b>		<b>Expenditures</b>
American Printing	Lab Supplies - wheeled briefcase	\$1,300.00
Best American Tools	Lab Supplies - microbiology books, lens paper, handheld UV black light, temperature sensitive tape	\$433.65
JMI Edison	Lab Supplies - fixed volume micro pipette tips, inoculating loop blue, inoculating needle white	\$475.00
Micropac	Office supplies - portable hard drive, external batteries	\$1,624.35
MedPharm	Lab Supplies - disposable best nitrile gloves, alcohol pad,	\$68.28
MedQuest	Lab Supplies - serological pipette of different sizes, 315c pocket digital thermometer	\$420.00
M.D. Wholesale	Lab Supplies - larval trays, vinyl covers for larval trays, 161-piece household toolkit	\$2,963.54
	<b>SUBTOTAL</b>	<b>\$7,284.82</b>
	<b>GRAND TOTAL</b>	<b>\$40,999.92</b>

**Table 4. Supplies and materials procured by the Division of Environmental Health in FY 2016.**

# RESOURCES

## EQUIPMENT

A total of \$33,200 was appropriated for equipment and \$31,584 for capital outlay in FY 2016. Appropriations came only from the EHF FY 2016 (\$8,200 in equipment and \$31,584 in capital outlay) and SIRF FY 2016 (\$25,000 in equipment) accounts. Funds were used to purchase laboratory and inspection equipment such as a Vidas Heat & Go, Vortex Genie mixer, Sentinel 2 mosquito lab equipment, forced air oven and stable temperature digital utility water bath, automatic colony counter, mosquito traps, environmental meter, water activity meter, handheld food and dairy pH meter, incubators, freezers, and moisture meters (Table 5).

<b>EQUIPMENT</b>		
<b>Environmental Health Fund FY2016</b>		<b>Expenditures</b>
Best American Tools	Extech EN300 Environmental Meter 5-in-1	\$1,399.80
Best American Tools	Portable Handheld Water Activity Meter	\$2,499.95
Best American Tools	Handheld Food and Dairy pH Meter	\$1,177.55
M.D. Wholesale	Tramex MEP Moisture Meters (2ea)	\$990.00
<b>SUBTOTAL</b>		<b>\$6,067.30</b>
<b>DPHSS Sanitary Inspection Revolving Fund FY2016</b>		<b>Expenditures</b>
Benson	CDC Miniature Light	\$299.95
Medquest	Mosquito Traps	\$798.00
Medquest	Digital Waterproof Camera (1ea)	\$698.00
Medquest	Micro Pipettes	\$392.00
Medquest	Lab Equipment - Olympus CX31 Microscope/Fisher Hotplate/Pipetman Gilson Electronic Pipettes/Eclipse Precision Balance	\$5,799.00
MedPharm	Vidas Heat & Go	\$2,975.00
MedPharm	Pipetboy Pipette Controller & Vortex Genie Mixer	\$1,663.30
MD Wholesale	Sentinel 2 Mosquito Trap	\$2,518.40
MD Wholesale	Laser Distance Measurer	\$397.28
MD Wholesale	Forced Air Oven & Stable temp digital utility water	\$1,800.00
MD Wholesale	Automatic Colony Counter	\$1,067.20
<b>SUBTOTAL</b>		<b>\$18,408.13</b>
<b>TOTAL</b>		<b>\$24,475.43</b>
<b>CAPITAL OUTLAY</b>		
<b>Environmental Health Fund FY2016</b>		<b>Expenditures</b>
MD Wholesale	Microbiological Incubator	\$5,500.00
MedPharm	Dilumat	\$6,341.23
MedQuest	Heratherm Incubator	\$4,680.00
MD Wholesale	Freezer	\$13,000.00
<b>TOTAL</b>		<b>\$29,521.23</b>

**Table 5. Equipment procured by the Division of Environmental Health in FY 2016**

## TRAVEL

There was \$67,517.00 appropriated for travel in Fiscal Year 2016 (\$21,864 in GF, \$31,250 in the EHF, and \$14,403 in the SIRF), and of this amount, \$50,649.07 was expended (Table 6). The General Fund (\$18,293.53) was used to send EPHO Administrator M. Scroggs to the Conference for Food Protection Biennial Meeting in Boise, Idaho, and EPHO-III K. Del Mundo to Washington, DC for the National Association of County and City Health Officials (NACCHO) National Retail Food Regulatory Program Standards Self-Verification and Assessment training, followed by two weeks of hands-on laboratory training at an Federal Drug Administration laboratory in Irvine, California. EPHOs E. Lum and J. Cruz also traveled to Berkeley, California for the National Recreation and Park Association Certified Playground Safety Inspector training and examination using GF. Environmental Health Funds (\$24,250.10) were used to send Chief

## RESOURCES

EPHO M. Nadeau, EPHO Administrator M. Scroggs, and EPHO-I L. Navarro to the National Environmental Health Association Annual Education Conference in San Antonio, Texas; PC IV J. Pinaula to Las Vegas, Nevada for the 2016 FileMaker Developer's Conference; EPHO-III C. Baradi to Irvine, California for hands-on laboratory training; and EPHO-III K. Del Mundo to Reno, Nevada for the 2016 FDA Retail Food Seminar. Finally, SIRF funds in the amount of \$8,105.93 were used to send EPHO-III M. Lastimoza and EPHO-I K. Duenas to Orlando, Florida to attend the 2016 Florida Mosquito Control Association (FMCA) Dodd Short Courses.

<b>TRAVEL</b>	
<b>General Fund FY2016</b>	<b>Expenditures</b>
Marilou Scroggs travel to Boise, ID on April 15-22, 2016 to attend the Conference for Food Protection Biennial Meeting. Air fare and per diem	\$3,523.95
Katherine Del Mundo travel to Washington, DC on July 11-31, 2016 for the NACCHO National Retail Food Regulatory Program Standards Self-Assessment and Verification and Irvine, CA for hands-on training at the FDA lab. Air fare, per diem	\$7,146.39
Evan Lum travel to Berkeley, CA on Sept 5-8, 2016 to attend the NRPA Certified Playground Safety Inspector training. Air fare, per diem, registration, and car rental	\$4,003.05
James Cruz travel to Berkeley, CA on Sept 5-8, 2016 to attend the NRPA Certified Playground Safety Inspector training. Air fare, per diem, and registration	\$3,619.65
<b>SUBTOTAL</b>	<b>\$18,293.04</b>
<b>Environmental Health Fund FY2016</b>	<b>Expenditures</b>
Tom Nadeau/Marilou Scroggs/Leilani Navarro travel to San Antonio, TX on June 10-17, 2016, to attend NEHA AEC. Air fare, per diem, and registration	\$11,665.15
Claire Baradi travel to Irvine, CA on July 18-30, 2016 for hands-on FDA laboratory and microbiology training. Air fare and per diem	\$4,925.65
Jeffrey Pinaula travel to Las Vegas, NV on July 18-22, 2016 for the 2016 FileMaker Developers Conference. Air fare, per diem, and registration	\$5,330.65
Katherine Del Mundo travel to Reno, NV on Sept 19-23, 2016 to attend the 2016 FDA Retail Food Seminar. Air fare and per diem	\$2,328.65
<b>SUBTOTAL</b>	<b>\$24,250.10</b>
<b>Sanitary Inspection Revolving Fund FY2016</b>	<b>Expenditures</b>
Michelle Lastimoza travel to Orlando, FL on Jan 24-31, 2016 to attend the FMCA 2016 Dodd Short Courses. Air fare, per diem, and registration	\$3,881.05
Katherine Duenas travel to Orlando, FL on Jan 24-31, 2016 to attend the FMCA 2016 Dodd Short Courses. Air fare, per diem, car rental, and registration	\$4,224.88
<b>SUBTOTAL</b>	<b>\$8,105.93</b>
<b>TOTAL</b>	<b>\$50,649.07</b>

**Table 6. Off-island travel taken by the staff of the Division of Environmental Health in FY 2016.**

# ACCOMPLISHMENTS

## PROCESSING CENTER

The Processing Center Section (PCS) of the Division of Environmental Health issued 3,321 Sanitary Permits; 35,261 Health Certificates; 546 Guam Controlled Substances Registration Certificates; and 12 Disinterment and eight Disinterment-Reinterment approvals in FY 2016.

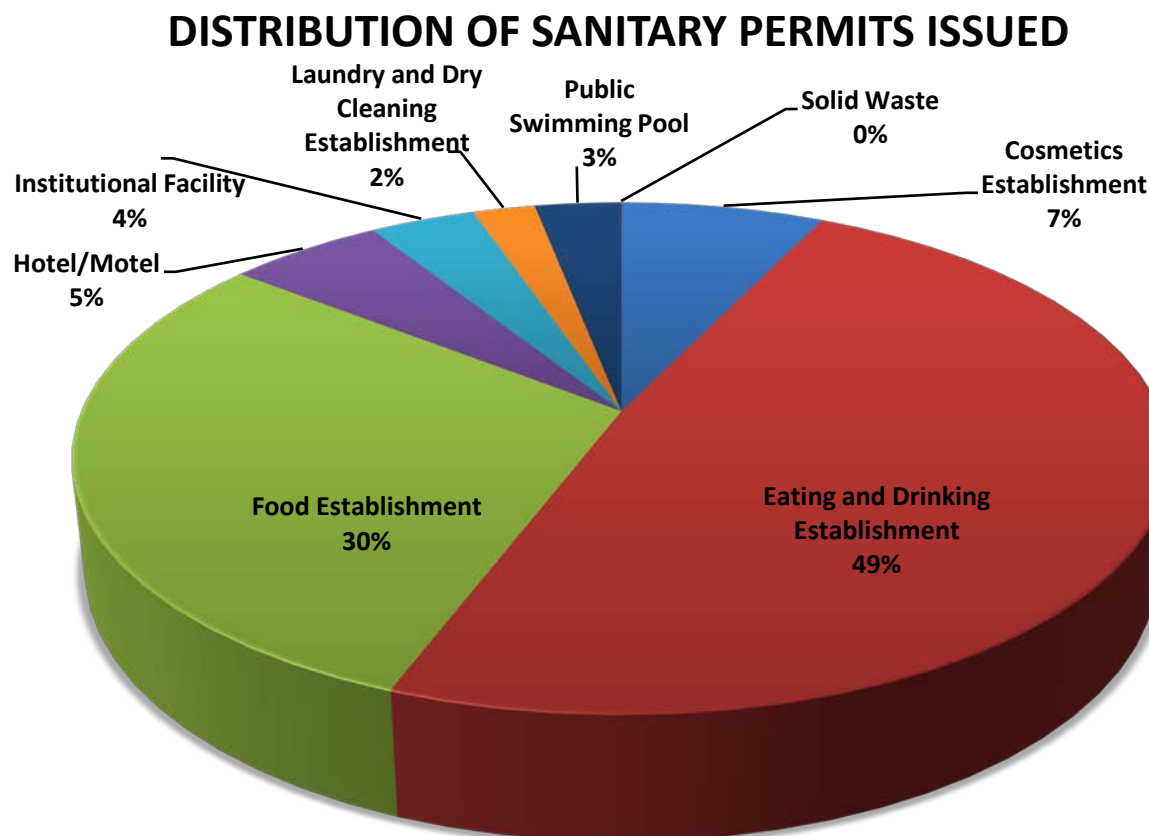
### Sanitary Permit

The Division of Environmental Health issued 3,321 Sanitary Permits (inclusive of temporary permits) in FY 2016, which equated to \$923,258.46 in generated revenue (**Table 7, Figure 1**). There were 50 more permits issued this year than in FY 2015 (increase of 1.5%), but \$2,254.90 less in revenue generated, a decrease of less than 1% over FY 2015 revenues. There were modest increases in the number of Eating and Drinking, Swimming Pool, Cosmetic and Hotel/Motel Sanitary Permits issued in FY 2016 from FY 2015.

SANITARY PERMIT ISSUANCE		
Category	*Number of Issuances	Revenue
Cosmetics Establishment	237	\$67,367.52
Eating and Drinking Establishment	1,615	\$382,535.83
Food Establishment	991	\$298,557.54
Hotel/Motel	181	\$68,276.74
Institutional Facility	123	\$53,951.66
Laundry and Dry-Cleaning Establishment	73	\$22,735.01
Solid Waste	1	\$290.00
Public Swimming Pool	100	\$29,544.16
<b>TOTAL</b>	<b>3,321</b>	<b>\$923,258.46</b>

\*Includes new, renewal, temporary, and duplicate.

**Table 7. Sanitary Permits issued by the Division of Environmental Health in FY 2016.**



**Figure 1. Distribution (%) by Category of Sanitary Permits Issued by the Division of Environmental Health in FY 2016.**

# ACCOMPLISHMENTS

## Health Certificates

A total of 35,261 Health Certificates were processed and issued by the Division in FY 2016, the majority of which were in the Food category (48.9%) (**Table 8**). This resulted in \$296,819.3 in generated revenue. This amount was \$6,533.30 more than was that collected in FY 2015 even though there were 1,361 fewer Health Certificates issued (-3.7%) when compared to FY 2015. One reason for this increase could be the enforcement of the Health Certificate regulations regarding Temporary Health Certificates: In addition to an increase in the cost for a Temporary Health Certificate (from \$5 to \$15), a certified manager was required to sign a contract for each temporary worker they would oversee. A short training in food safety for the temporary workers was also required for many of the events. There were 200 more temporary certificates issued in FY 2016 than in FY 2015, likely due to the 12<sup>th</sup> Festival of the Pacific Arts.

The number of Health Certificates issued for Manager’s Certification during the fiscal year increased by 56%, from 48 to 75. Enforcement of the Health Certificate regulations requiring a certified manager for all food facilities was stepped up this fiscal year, which may explain the increase.

HEALTH CERTIFICATE ISSUANCE		
Type	Number of Issuances	Revenue
New	1,254	\$12,530.00
Interim	12,465	\$114,820.00
New Manager's Certification	75	\$720.00
<sup>1</sup> Renewal	16,148	\$161,600.30
<sup>2</sup> Passed Workshop Exam	3,215	\$0.00
Failed Workshop Exam	501	\$0.00
<sup>2</sup> Written Agreement	94	\$0.00
Amendment	7	\$35.00
<sup>3</sup> Temporary	916	\$5,940.00
Re-Issuance	586	\$1,174.00
<b>TOTAL</b>	<b>35,261</b>	<b>\$296,819.30</b>

<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.

**Table 8. Health Certificates issued by the Division of Environmental Health in FY 2016.**

## Controlled Substances Registration Certificates

Five hundred forty-six (546) Guam Controlled Substances Registration (CSR) Certificates were issued in FY 2016 (**Table 9**), 118 more than the amount that was issued in FY 2015. Revenues collected this fiscal year (\$72,220) were \$16,430 (29.4%) more than those collected in FY 2015. In FY 2016, 64.7% of the CSRs were issued to medical doctors (MD), followed by dentists (DDS and DMD) at 9.2% of total registrants. Pharmacies made up 5.7% of all registrants. The opening of the new Guam Regional Medical City, and its new physicians, as well as physicians adding the new hospital as a place of practice, contributed to the increase in CSRs issued.

## Disinterment and Disinterment-Reinterment Clearances

DEH approved 12 Requests for Disinterment and 8 for Disinterment-Reinterment (DR) (**Table 10**). This was four fewer requests (-25%) for Disinterment than in FY 2015, and eight fewer requests (-50%) for DR. Overall, FY 2016 saw 12 fewer requests. 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 when a husband and wife are placed together.

## Administrative Penalty

In FY 2016, there were 6 cases processed for administrative penalty by the Division (**Table 11**). A total of \$1,000 in fines was collected from establishments that had employed individuals who did not possess valid Health Certificates while working in these regulated establishments. This

## ACCOMPLISHMENTS

was a decrease of four cases from FY 2015 (40%) and a decrease of 58.3% in the amount collected (\$1,400). Most violations were in the Food Establishment category, followed by Cosmetic Establishment category, and the Institutional category. All funds collected from administrative penalties were deposited into the General Fund.

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	15	13	0	1	0	29	\$3,950
Doctor of Medicine (MD)	135	205	0	13	0	353	\$47,590
Doctor of Dental Science (DDS)	7	33	0	0	0	40	\$5,190
Doctor of Dental Medicine (DMD)	0	10	0	0	0	10	\$1,300
Doctor of Osteopathic Medicine (DO)	12	11	0	3	0	26	\$3,540
Doctor of Veterinary Medicine (DVM)	2	7	0	2	0	11	\$1,230
Doctor of Podiatric Medicine (DPM)	3	4	0	1	0	8	\$980
Master Dental Surgery (MDS)	0	0	0	0	0	0	\$0
Physician's Assistant (PA)	2	13	0	4	0	19	\$2,030
Animal Shelter	0	1	0	0	0	1	\$130
Hospital	0	3	0	1	0	4	\$400
Clinic	1	5	0	0	0	6	\$690
Researcher	4	0	0	0	0	4	\$300
Pharmacy	0	27	0	3	1	31	\$4,090
Wholesale	0	4	0	0	0	4	\$800
<b>TOTAL</b>	<b>181</b>	<b>336</b>	<b>0</b>	<b>28</b>	<b>1</b>	<b>546</b>	<b>\$72,220</b>

**Table 9. Controlled Substances Registrations issued by the Division of Environmental Health in FY 2016.**

DISINTERMENT and DISINTERMENT/REINTERMENT ISSUANCE			
Category	No.	From	To:
Disinterment	3	Pigo Cemetery	Pigo Cemetery
	1	Tiguac Cemetery	Guam Memorial Park
	1	Tiguac Cemetery	Pigo Cemetery
	1	Pigo Cemetery	Guam Memorial Park
	1	Taguag Cemetery	Philippines
	1	Guam Memorial Park	Guam Memorial Park
	2	Guam Veteran's Cemetery	Guam Veteran's Cemetery
	1	Carmelite Monastery	Carmelite Monastery
Disinterment/ Re-interment	1	Our Lady of Peace	Our Lady of Peace
	2	Pigo Cemetery	N/A
	2	Guam Veteran's Cemetery	N/A
	1	Togcha Cemetery	N/A
	1	Our Lady of Peace	N/A
	2	Tiguac Cemetery	N/A

**Table 10. Disinterment and Disinterment-Reinterment approvals issued by the Division of Environmental Health in FY 2016.**

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

### CONSUMER COMMODITIES

The consumer commodity programs of DEH responded to all detainments made by the Guam Customs and Quarantine Agency (GCQA) at the island's ports of entry. The Bureau of Compliance and Investigation Consumer Commodity Program (CCP) staff did not conduct any tagging of products at retail establishments due to other competing priorities. A total of 18



## ACCOMPLISHMENTS

detainments (cases) were examined this fiscal year (Table 12). This was 9 fewer detainment reviews than were conducted in FY 2015, a decrease of 33%.

ADMINISTRATIVE PENALTY ASSESSMENTS				
No.	Establishment	Category	Amount Assessed	Amount Collected
1	S. H. Enterprises	Food Establishment	\$200	\$200
2	Port of Mocha Coffee House - Hagatna 3	Food Establishment	\$200	\$0
3	Bokka	Food Establishment	\$200	\$200
4	Morning Star Beauty and Barber Shop	Cosmetic Establishment	\$200	\$200
5	Guam Hollywood Nails	Cosmetic Establishment	\$400	\$400
6	The Giving Tree Early Learning Center	Child Care Establishment	\$200	\$0
<b>TOTAL MONETARY FEES COLLECTED</b>				<b>\$1,000</b>

Table 11. Administrative penalties processed by the Division of Environmental Health in FY 2015.

CONSUMER COMMODITIES	
<b>Number of FOOD Inspections and Investigations</b>	
Commercial Importation Cases	2
Personal Importation Cases	1
Retail "Tagging" Cases	0
Subtotal	3
<b>Number of DRUG Inspections and Investigations</b>	
Commercial Importation Cases	1
Personal Importation Cases	5
Retail "Tagging" Cases	0
Subtotal	6
<b>Number of COSMETIC Inspections and Investigations</b>	
Commercial Importation Cases	0
Personal Importation Cases	1
Retail "Tagging" Cases	0
Subtotal	1
<b>Number of MEDICAL DEVICE Inspections and Investigations</b>	
Commercial Importation Cases	0
Personal Importation Cases	0
Retail "Tagging" Cases	0
Subtotal	0
<b>Number of HAZARDOUS SUBSTANCE Inspections and Investigations</b>	
Commercial Importation Cases	0
Personal Importation Cases	1
Retail "Tagging" Cases	0
Subtotal	1
<b>Number of MULTIPLE CATEGORY Inspections and Investigations</b>	
Commercial Importation Cases	3
Personal Importation Cases	4
Retail "Tagging" Cases	0
Subtotal	7
<b>GRAND TOTAL</b>	
<b>18</b>	

Table 12. Number of inspections and investigations of regulated consumer commodities conducted by the Division of Environmental Health in FY 2016.

### Food

In FY 2016, GCQA referred five detained shipments involving food. These food items varied from frozen shellfish and juice extracts to vitamins, minerals, and supplements. A total of 175 pieces of food and food/drug commodities were detained.

## ACCOMPLISHMENTS

Of the 5 food-related detained shipments, two were commercial importations. The consignees were retailers/wholesalers: SPE Guam Inc., San Jose Investments, and Direct Material-Coretech. These detainments originated from Japan and Korea.

There were no pre-importation clearances, releases, or refusals. One detainment case was brought forward from FY 2015. There were five forfeitures (two commercial and three personal importations) that were issued this fiscal year. Two detainment cases involving food were carried over to FY 2017.

There were 70 voluntary recalls for food commodities that were acted upon by CCP staff this fiscal year (**Table 13**). Of these recalls, a total of 126 pieces of recalled food items were found on island and removed from store shelves. One press release was issued regarding the voluntary recall of General Mills© Honey Nut Cheerios and Cheerios cereal products produced at the Lodi, California facility in July 2015 because of an undeclared allergen (i.e., wheat) on its label and the potential for adverse health effects.

Active inspection of food products at retail establishments was not performed this fiscal year due to other competing priorities.

Voluntary Recalls by US Food and Drug Administration - FY 2016													
USFDA	No. of Recalls Acted Upon	Type of Activity Conducted							Findings				
		Email	Faxes	Hand Delivered	Phone Calls	Inspections	Tag (No. Pieces)	Press Release Issued	No. On Island	Accounted	Removed	Sold	Returned
Food	57	2,071	0	0	0	0	0	1	126	126	126	0	0
Drug	2	102	0	0	0	0	0	0	0	0	0	0	0
Cosmetic	0	0	0	0	0	0	0	0	0	0	0	0	0
Medical Device	0	0	0	0	0	0	0	0	0	0	0	0	0
Voluntary Recalls by US Dept. of Agriculture - FY 2016													
USDA	No. of Recalls Acted Upon	Type of Activity Conducted							Findings				
		Email	Faxes	Hand Delivered	Phone Calls	Inspections	Tagged (No. Pieces)	Press Release Issued	No. On Island	Accounted	Removed	Sold	Returned
Food	13	470	0	0	0	0	0	0	0	0	0	0	0

**Table 13. Number and type of voluntary recalls by U.S. Food and Drug Administration (USFDA) and U.S. Department of Agriculture (USDA) acted upon by DEH in FY 2016.**

### Drug

GCQA detained 11 shipments involving drugs, drug/food, or drug/cosmetic commodities in FY 2016. The detainments included topical pain killers; animal/veterinary drugs such as anthelmintic; skin whiteners; intravenous fluids; and menthol sachets.

Of the 11 drug-related detained shipments, three were commercial importations. The consignees were retailers/wholesalers: Mangilao Golf Course, MISSHA, Video Station Wholesaler, and San Jose Investments. These detainments were imported from Korea. A total of 988 pieces of drug

## ACCOMPLISHMENTS

commodities were detained, resulting in three forfeitures. Two cases were carried over to FY 2017. There were no pre-importation clearances, releases, or refusals in FY 2016.

There were 2 voluntary recalls for drug commodities that were acted upon by CCP staff this fiscal year. No press releases were issued.

### Cosmetic

In FY 2016, there were a total of 4 detained shipments involving cosmetics or drug/cosmetics. GCQA referred cosmetics included shampoos, cleansing creams and foams, lotions, body scrubs, spa salts, soaps, nail polish, and other beauty products.

Of the 4 cosmetic-related detained shipments, two were commercial importations. The consignees were retailers/wholesalers: MISSHA, Video Station Wholesaler, and San Jose Investments. These detainments were all imported from Korea.

A total of 2,182 pieces of cosmetic and drug/cosmetic commodities were detained. One cosmetic-related detainment case was carried over to FY 2017. There were no pre-importation clearances, releases, or refusals. Four forfeitures were (two commercial and two personal importations) issued this fiscal year.

There were no recalls involving cosmetic commodities that was acted upon by CCP staff this fiscal year. There were also no press releases issued for voluntary recalls for cosmetic commodities this fiscal year.

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

### Medical Device

There was 1 GCQA detained shipment involving medical devices, which was referred to DEH. This shipment included alginate, bite wax, and resin materials used in dentistry. The shipment originated from Korea, and the items were later forfeited.

A total of 31 pieces of medical device commodities were detained. There were no pre-importation clearances, releases, or refusals. No cases were carried forward to FY 2017.

There were no recalls involving medical devices that were acted upon by CCP staff this fiscal year. There were no press releases issued for voluntary recalls for medical device commodities this fiscal year.

### Hazardous Substances

Of the 18 detained shipments received in FY 2016 from GCQA, there were 2 detained shipments involving hazardous substances. The items included vinyl plastic balloons, detergents, fabric softeners, and curing liquids used in dentistry.

Of the 2 detained shipments, one was a commercial importation. The consignee, retailer/wholesaler San Jose Investments, imported the shipment from Korea.

A total of 82 pieces of hazardous substance commodities were detained. There were no pre-importation clearances, or refusals; however, there were 3 forfeitures that were issued this fiscal year. No hazardous substance detainment cases were carried over to FY 2017. CCP staff did not conduct any recall checks related to hazardous substances this fiscal year.

## ACCOMPLISHMENTS

Active inspection of hazardous substance products at retail establishments was not performed this fiscal year.

### Controlled Substances

DEH continued working towards the adoption of the proposed draft *Rules and Regulations Governing Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013*. Moving forward from the administrative public hearing that was held over the course of three days (July 29-31, 2015) in Fiscal Year 2015, the proposed regulations were submitted to the Office of the Attorney General in October 2015 for review and approval.

In January 2016, DEH staff met with Attorney General Elizabeth Barrett-Anderson and her staff, and representatives from Senator Tina Muna Barnes' office, to discuss a collaborative effort between the respective offices to review the draft regulations to ensure they comported with the Act and were legally sound. Staff from the three respective offices met weekly to review the draft regulations for compliance and agreement with the statute.

After months of work, on 4/28/16, the Attorney General Elizabeth Barrett-Anderson wrote a letter to DPHSS stating that the OAG completed its review of the draft regulations. On 5/10/16, the draft regulations were transmitted to the 33<sup>rd</sup> Guam Legislature for review and approval. With 90 days to act on the proposed regulations, Senator Dennis G. Rodriguez, Jr., Chairman of the Committee on Health, Economic Development, Homeland Security, and Senior Citizens, held a public hearing on 6/7/16. Based on public testimony from that hearing, Senator Tina Muña Barnes introduced Bill 345-33 on 6/30/16 to disapprove the proposed regulations as written. The bill, "*An Act to Disapprove the Proposed Rules and Regulations Governing 'The Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013'*" was passed by the Legislature on 7/20/16, and lapsed into law (Public Law No. 33-184) on 8/2/16, thereby disapproving the proposed regulations.

Two other bills, 343-33 and 344-33, that were introduced by Senator Barnes on 6/30/16 had Legislative public hearings on 9/28/16, and were still pending Legislative action at the end of the fiscal year. If enacted, Bill 343-33 would expand the provisions of the *Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013*, while Bill 344-33 would legalize the home cultivation of medical marijuana. DPHSS did not take a position on the two bills; no testimonies were submitted by the Department.

The lengthy process in the development, and the associated administrative process of its failed adoption, of the *Rules and Regulations Governing Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013* adversely affected the proposed, revised rules and regulations governing the issuance of Controlled Substances Registration (GCSR), which were separately transmitted to the Office of the Attorney General for legal review. The review was delayed as the proposed GCSR regulations were directly affected by the medical marijuana regulations that contained registration requirements for controlled substance distributors and manufacturers (i.e., medical marijuana cultivators and dispensaries). DEH will seek for the adoption of the draft regulations in FY 2017.

A total of 5 pre-operation inspections of facilities seeking GCSR were conducted in Fiscal Year 2016. These inspections were conducted to ensure that proper security measures for the storage and dispensing of pharmaceutical controlled substances were in place prior to the issuance of the GCSR certificate. The pre-operation inspections were performed on ITC Pharmacy I in Dededo (12/15/15); Surgical Nursing Unit at the Guam Regional Medical City in Dededo (2/26/16);

## ACCOMPLISHMENTS

American Medical Center in Mangilao (3/25/16); Medical Surgical Unit of the Guam Regional Medical City in Dededo (8/5/16); and Superdrug Pharmacy in Dededo (8/31/16). All 5 inspections resulted in the approval and issuance of the GCSR certificate to the facilities.

The Controlled Substances Program's investigation relative to an Administrative Search Warrant that was executed at a local veterinary clinic in FY 2013 resulted in the return of certain seized items to the owner. During FY 2015, BCI staff 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 Superior Court of Guam entered Findings of Fact, Conclusions of Law, and a Judgement forfeiting the unlawfully possessed controlled substances in favor of the Government of Guam. However, the case was appealed by the registrant to the Supreme Court of Guam; a decision was still pending at the end of the fiscal year.

On 04/12/16, the Department transmitted seven complaints of pharmaceutical controlled substances diversion that were pending DEH investigation to the Guam Police Department. The referral was made to GPD as DEH instituted a policy to investigate only healthcare practitioners, not individual patients, suspected of diverting controlled drugs. The policy was adopted to minimize the potential danger placed on DEH personnel who investigate drug diversion and to focus on registrants with GCSR who are authorized to manufacture, distribute, or dispense pharmaceutical controlled drugs on island.

On 04/30/2016, the Controlled Substances Program (CSP) participated in Law Day 2016: "Miranda: More Than Words," sponsored by the Judiciary of Guam, the District Court of Guam, and the Guam Bar Association. CSP provided a static display, along with brochures and flyers, to provide education on pharmaceutical drug diversion and abuse to Guam school children, their parents, and the public that participated in this year's event.

### PRESCRIPTION DRUG MONITORING PROGRAM

The Prescription Drug Monitoring Program (PDMP) was able to hire a Program Coordinator IV (PC-IV) to implement and monitor grant activities. The PC-IV was interviewed in December 2015 and started work on January 2016.

Shortly after being hired, the PC-IV participated and assisted in the "National Prescription Drug Take Back Initiative" on April 30. Over 100 pounds of expired and/or unused medications were received and disposed of by the U.S. DEA. Also in April, the PC-IV conducted a presentation on the PDMP with TakeCare/FHP Physicians and Pharmacists. The TakeCare/FHP pharmacy currently uses the PDMP to monitor their patients; however, their physicians have yet to use the system.

The PDMP database had encountered technical difficulty in March 2016, which was not resolved until August 2016, as the website went down due to the vendor's hardware crash. DEH worked with the vendor to address the situation, and after nearly 5 months, the PDMP website was up and operating in August 2016, but not fully operational until September 2016. According to the



Photo 2. Former PDMP staff M. Cruz disposes of unused medications at the Agana Shopping Center "Take Back" site, assisted by PC-IV J. Pinaula and DEA Resident Agent in Charge M. Puralewski. (Source: C. Naval, 4/30/16)

## ACCOMPLISHMENTS

vendor, the crash occurred as they had placed Guam’s PDMP server on the cloud rather than the traditional physical hardware server, which apparently led to the hardware crash.

The Guam PDMP applied for the Harold Rogers National Prescription Drug Monitoring Program Grant for Federal Fiscal Year 2016-2018, and in September 2016, the Division was notified of its approval. The proposal will continue outreach to physicians, provide public awareness, and obtain training. A part of the grant will also be used to upgrade the current PDMP database.

### HAND HYGIENE PROGRAM

The Hand Hygiene Program of DEH provides opportunity for kids in school, starting from kindergarten, to learn the importance of handwashing to prevent infection. During the fiscal year, 62 presentations on proper handwashing technique, when to wash hands, and why handwashing is important were provided to thousands of children in four public elementary schools.

### PILOT PROGRAM ON SCHOOL SANITATION

In FY 2013, DEH began the implementation of the “Community-Supported School Maintenance Program” (the “Program”) in partnership with the Guam Department of Education (GDOE) to assist the public-school system with its chronic school sanitation challenges. The Program sought to have GDOE’s selected three pilot schools assist DEH in the development of a guidance document that schools could use to seek community’s resources to assist them (and other GDOE schools) in complying with the governing *Rules and Regulations Pertaining to School Sanitation*. The finalized guidance document, *Community-Supported School Maintenance Manual* (the “Manual”) was to be implemented by the original three pilot schools, and additional three GDOE schools, during FY 2016, and to have DEH evaluate its effectiveness.

During the first half of the evaluation period, the six pilot schools had failed to submit all the required documents, forcing DEH to seek recommitment of the Program from GDOE and its participating six schools. Consequently, this led to the extension of the evaluation period up to the end of FY 2016. Report of the evaluation will be presented in FY 2017.

### 12<sup>TH</sup> FESTIVAL OF THE PACIFIC ARTS 2016

The Festival of the Pacific Arts (FestPac) is a regional event that is held every four years that brings together artists and cultural practitioners from around the Pacific region for two weeks of festivity. It was started in 1972 by the Secretariat of the Pacific Community (formerly the South Pacific Commission) to promote Pacific cultures; FestPac is recognized as the largest gathering of Pacific islanders who unite to enhance their respect and appreciation of one another.

Guam hosted the 12<sup>th</sup> FestPac, which occurred from May 22, 2016 to June 4, 2016, and witnessed the arrival of nearly 2,500 delegates from 27 Pacific Island Nations and Territories.



Photo 3. J. Garcia applies BTI during source reduction activities. (Source: C. Baradi, 3/29/16)

## ACCOMPLISHMENTS

Using the 2010 census data, and including the average daily tourist number on island, DEH estimated that Guam's population increased by nearly 4.5% during the two-week event.

The primary focus of DEH for FestPac was for the prevention and control of possible disease transmission. Specifically, the Division sought to prevent (1) the local transmission of mosquito-borne disease that may be imported by visiting traveler(s); (2) foodborne illness outbreak from occurring due to non-compliant food vendor at the event; and (3) infectious disease outbreak at event and lodging sites. Concerns of possible mosquito-borne disease outbreak was heightened as 3 of the participating Pacific Islands and Territories were experiencing Zika virus outbreak in their respective islands (Samoa, Tonga, and American Samoa).

DEH staff worked 12-hours shifts during the festival for inspections and monitoring of food facilities and lodging sites. The following were some of the more significant actions performed by DEH in preparing and executing the plans in preventing disease outbreak during FestPac 2016:

- Participated in all pertinent FestPac sub-committees and meetings;
- Participated in an inter-agency table-top emergency response exercise in preparing for the event;
- Provided food safety training to all food vendors contracted to either provide meals to visiting delegates (4 caterers) or selling food at the event sites (14 stall stands and 43 temporary food establishments);
- Conducted pre-operation inspections of all contracted food vendors;
- Inspected food vendors not associated with the festival that were located within 1-mile radius of the main venue;
- Assessed the sanitary conditions of 8 lodging sites of delegates;
- Acquired the assistance of CDC for pesticide application service;
- Conducted mosquito source reduction inspections of venue and lodging sites;
- Performed daily monitoring of all meals prepared and served by four caterers to visiting delegates;
- Monitored the food safety practices of 57 food establishments at venue sites;
- Assisted the off-island, CDC-contracted pesticide applicator in coordinating application sites;
- Established a "spray booth" at the main venue to allow attendees (and participants) to spray insect repellent on themselves for protection;



Photo 4. M. Lastimoza and J. Garcia collect mosquito larvae during trapping activities. (Source: C. Baradi, 3/31/16)



Photo 5. T. Muna and J. Pinaula manning the mosquito repellent table at Paseo de Susanna. (Source: J. Pinaula, 5/24/16)

## ACCOMPLISHMENTS

- Gave hand-hygiene presentations to delegates at the lodging sites; and
- Issued notices, pamphlets, and other written and oral messages to the community about mosquito control and prevention.

No foodborne illness was reported during the two-week festivity that was linked to FestPac and its food vendors, and no local transmission of mosquito-borne disease was reported.

DEH assisted in coordinating the application of pesticide by CDC's contracted pesticide applicator, VDC International, at various venue and lodging sites. VDC International also sprayed the homes of 109 pregnant women across the island who accepted the free service offered by CDC.

### GUAM ENVIRONMENTAL PUBLIC HEALTH EDUCATION MONTH

DEH held its 1<sup>st</sup> Annual Guam Environmental Public Health Education Month (GEPHEM) in September 2016 with the theme of "*Fight the Bite!*" to bring awareness to the public about mosquito-borne diseases. The annual GEPHEM replaced the previously-held Guam Food Safety Education Month (GFSEM), which DEH had spearheaded the previous ten years to educate the community on preventing foodborne diseases. The transition of GFSEM to GEPHEM was made to highlight the many environmental health programs of the Division, not just food safety. Every September, an environmental health program will be recognized and focused upon for public awareness and education.



Photo 6. Miss Skeeta, DEH's mosquito mascot, was present in support of declaring September 2016 as the 1<sup>st</sup> Annual Guam Environmental Public Health Education Month. (Source: J. Pinaula, 8/30/16)

The objectives of GEPHEM for FY 2016 were to educate the public about mosquito biology and



Photo 7. Poster contest winners and Miss Skeeta at the 1<sup>st</sup> Annual Guam Environmental Public Health Education Month Fair. (Source: Adztech, 9/24/16).

anatomy, bite prevention and control, mosquito-borne diseases, common predators, and identification and elimination of breeding sites. The celebration began with the signing of the proclamation by Lieutenant Governor Ray Tenorio on August 30, 2016. A poster contest was held for students of the island's public and private elementary schools. The prizes (Nintendo 3DSXL and gift certificate for GameStop for 1<sup>st</sup> Place; 8" 16 GB Samsung Galaxy Tab A tablet for 2<sup>nd</sup> Place; and 7" 8 GB Samsung Galaxy Tab A Tablet for 3<sup>rd</sup> Place) for the winners of the GEPHEM poster contest were donated by the Environmental Public Health Association. The association had hosted an event on 04/22/16 that featured a lip

sync contest with raffles that raised \$3,126.00 for prizes.

This year's poster contest had 1,763 participants from 186 teachers of 31 public and private elementary schools. The top three posters were chosen from each of three categories: Category I



## ACCOMPLISHMENTS

(K-1<sup>st</sup> grade); Category II (2<sup>nd</sup>-3<sup>rd</sup> grade); and Category III (4<sup>th</sup>-5<sup>th</sup> grade). The winners of each category are presented in **Photos 8 – 10**.

CATEGORY I

First Place: Gabriel Guzman



Second Place: Gabriel Legaspi



Third Place: Aiyana Bonto



Photo 8. Category I Winners of the 2016 Guam Environmental Public Health Education Month Poster Contest. (Source: Adztech, 9/24/16).

CATEGORY II

First Place: Isabel Olivario

Second Place: Jaedine Jenelle Ucol

Third Place: Ella Freyalise Losinio



Photo 9. Category II Winners of the 2016 Guam Environmental Public Health Education Month Poster Contest (Source: Adztech, 9/24/16).

CATEGORY III

First Place: Liam Padua

Second Place: Reo Okawa

Third Place: Zavieria Francisco



Photo 10. Category III Winners of the 2016 Guam Environmental Public Health Education Month Poster Contest (Source: Adztech, 9/24/16)

## ACCOMPLISHMENTS

The GEPHEM celebration concluded with a public fair on mosquito bite prevention and control at the Micronesia Mall Center Court on 09/24/16. Static displays on mosquito bite prevention and control were presented by DEH; No Ka Oi Termite and Pest Control; U.S. Naval Hospital Preventive Medicine Unit; 36<sup>th</sup> Medical Operations Squadron, Andersen Air Force Base; and the Guam Environmental Protection Agency's Pesticide Program. All poster entries were also displayed at the center court. Entertainment was provided by dancers from Mercy Heights Catholic School and Step Up Entertainment dancers. There was also a photo booth provided by AdzTech Advertising and Public Relations, Inc., and a very popular balloon animal table from Rocelle's Animal Balloons.

### HEALTH-REGULATED ESTABLISHMENTS

In this fiscal year, the Processing Center Section processed and issued 3,321 Sanitary Permits to various health-regulated establishments, while the Bureau of Inspection and Enforcement (BIE) recorded 3,144 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 renewal temporary permit for the same vendor of an event (i.e., Wednesday Night Market).

The Division inspected 488 different permitted establishments in FY 2016, which is only 15.5% of the total permitted facilities. Legislative mandate requires DEH to conduct an inspection of 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 12,576 routine inspections in FY 2016 forced DEH to prioritize its inspections. Establishments deemed high priority (such as those catering to high risk populations, including temporary food establishments) were inspected on multiple occasions during the year. When all regular, follow-up, complaint, and assessment were combined, the Division performed 1,045 inspections in FY 2016, an increase of 86.6% in the number of inspections conducted. Graphical presentations of sanitation inspection data for Fiscal Year 2016 are provided in **Figures 2-4**.

The "Other" inspection types, as shown in **Figure 3**, are assessments, which generally result in no letter grade being issued (**Figure 4**) to the inspected establishment. Nearly three-quarter of all inspections conducted in FY 2016 were assessments without letter grade issuance. This was a result of DEH's implementation of the Guam Food Code, which included the education and training phase. During this phase, retail food facilities inspected for the first time under the requirements of the code were assessed by citing observed violations, but no letter grade issued. However, all subsequent compliance inspections were graded.

### Food Facilities

There was a total of 2,606 Sanitary Permits issued to food facilities (Eating and Drinking Establishments and Food Establishments) in FY 2016 by the Processing Center Section, which was more than three and a half times (2,606 vs. 715) the number issued for all other categories combined, and thus made up 78.47% of all health-regulated establishments permitted. Food facilities were given higher priorities over other regulated establishments by DEH for sanitation inspections because of the greater potential for disease outbreaks to occur at these establishments.

To conduct as many inspections as possible without sacrificing quality, the Division created a list of critical aspects that inspectors were to focus upon above all others. This enabled the inspectors to concentrate only on those food safety issues that posed the greatest risk of causing foodborne illness. There was no foodborne illness outbreak linked to any regulated food facility reported to DEH in FY 2016.

# ACCOMPLISHMENTS

## DISTRIBUTION OF SANITATION INSPECTIONS

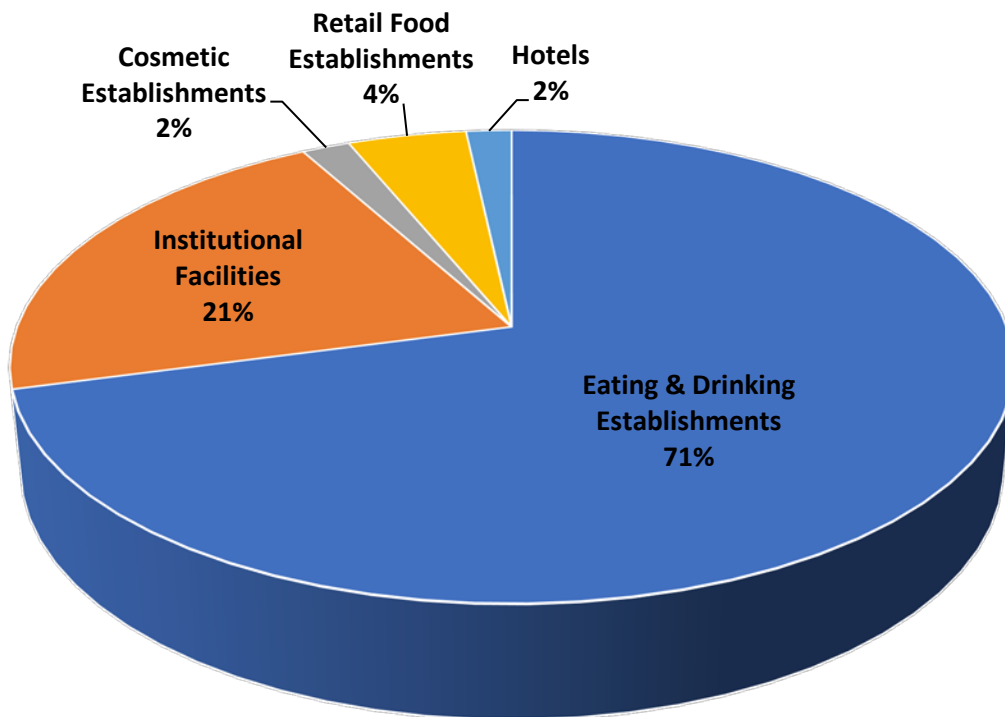


Figure 2: Distribution (%) of sanitation inspections of regulated establishments by DEH in FY 2016.

## TYPES OF SANITATION INSPECTION

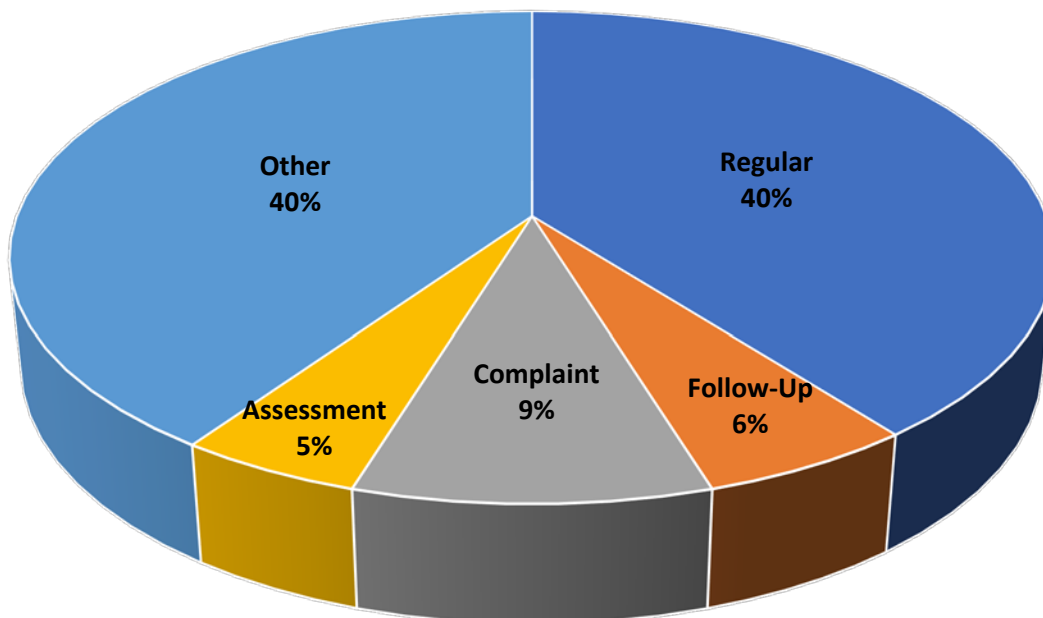
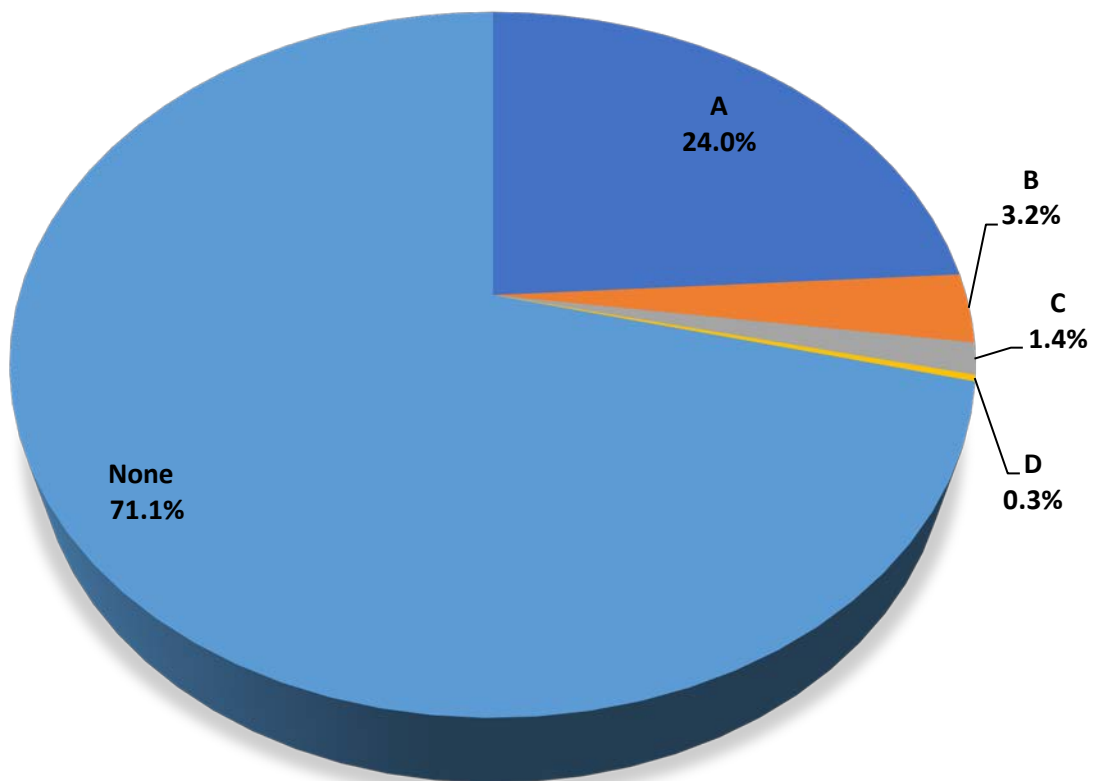


Figure 3. The types (%) of sanitation inspections conducted by DEH in FY 2016.

## INSPECTION LETTER GRADE ISSUANCES



**Figure 4. The inspection grades (%) issued to regulated establishments by DEH in FY 2016.**

### Eating and Drinking Establishments

Eating and Drinking Establishment category had the greatest number of permits issued among food facilities in FY 2016 with 1,615, which comprised 48.6% of all Sanitary Permits issued during the fiscal year. E&DE had the highest number of permitted establishments (1,553) and highest number of inspections conducted during the fiscal year (**Table 14, Figure 5**). The 740 inspections of Eating and Drinking Establishments made up 70.8% of all inspections conducted.

Temporary Food Service Establishments was the most inspected subcategory of Eating and Drinking Establishments during the year with 387 inspections conducted, which represented 52.29% of all inspections within the category. This was followed by stall stands with 196 inspections (26.49%) and restaurants with 69 inspections (9.32%).

### Food Establishments

There were 991 Sanitary Permits issued for Food Establishments in FY 2016 and a total of 47 inspections were performed by DEH on 38 of the 933 establishments in this category (**Table 15, Figure 6**), which was a 9% decrease from the previous year (52). 68% (32) of Food Establishment inspections were of retail establishments. This was followed by manufacturers, which represented 14.9% of the retail establishment inspections, and bakeries (12.8%).

# 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	472	60	13	69	3	3	34	29	0	9	3	1	1	55	4	1
Bar	139	0	0	4	0	0	2	2	0	0	0	0	0	4	0	0
Cafeteria	36	5	14	24	18	4	1	1	0	18	4	1	0	1	0	0
Catering	44	19	43	46	12	9	5	3	17	15	1	7	1	22	2	1
Coffee Shop	51	5	10	4	2	0	2	0	0	0	0	0	0	4	1	0
D.O.C. Cafeteria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drink Stand	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
In Plant Employee Eating Establishment	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lunch Counter	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	84	3	4	3	0	0	1	0	2	0	0	0	0	3	0	0
School Cafeteria	27	9	33	7	2	3	2	0	0	3	0	2	0	2	0	0
Sandwich Stand	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Short Order Establishment	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soda Fountain	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stall Stand	98	35	36	196	0	1	7	14	174	1	0	1	0	194	2	0
Tavern	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Temporary Food Service Establishment	394	229	58	387	160	0	0	0	227	0	0	0	0	387	0	0
Vending-Beverage Stand	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vending-Food Stand	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL:</b>	<b>1,553</b>	<b>365</b>	<b>24</b>	<b>740</b>	<b>197</b>	<b>20</b>	<b>54</b>	<b>49</b>	<b>420</b>	<b>46</b>	<b>8</b>	<b>12</b>	<b>2</b>	<b>672</b>	<b>9</b>	<b>2</b>

**Table 14. Number of sanitation inspections and investigations of Eating and Drinking Establishments conducted by the Division of Environmental Health in FY 2016.**



# 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 Complaint	Assessment	Other	A	B	C	D	None		
Bakery	50	6	12	6	0	1	5	0	0	1	0	0	0	5	1	0
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	5	1	20	1	0	0	1	0	0	0	0	0	0	1	0	0
Processing Plant	6	1	17	1	0	0	1	0	0	0	0	0	0	1	0	0
Fish Processing	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Food Warehouse	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fruit/Vegetable Market	4	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	238	5	2	7	0	2	4	0	1	2	0	1	1	3	1	1
Poultry Processing	10	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	487	25	5	32	1	2	27	2	0	3	1	1	0	27	0	0
<b>TOTAL:</b>	<b>933</b>	<b>38</b>	<b>4</b>	<b>47</b>	<b>1</b>	<b>5</b>	<b>38</b>	<b>2</b>	<b>1</b>	<b>6</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>37</b>	<b>2</b>	<b>1</b>

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

# ACCOMPLISHMENTS

## EATING AND DRINKING ESTABLISHMENTS

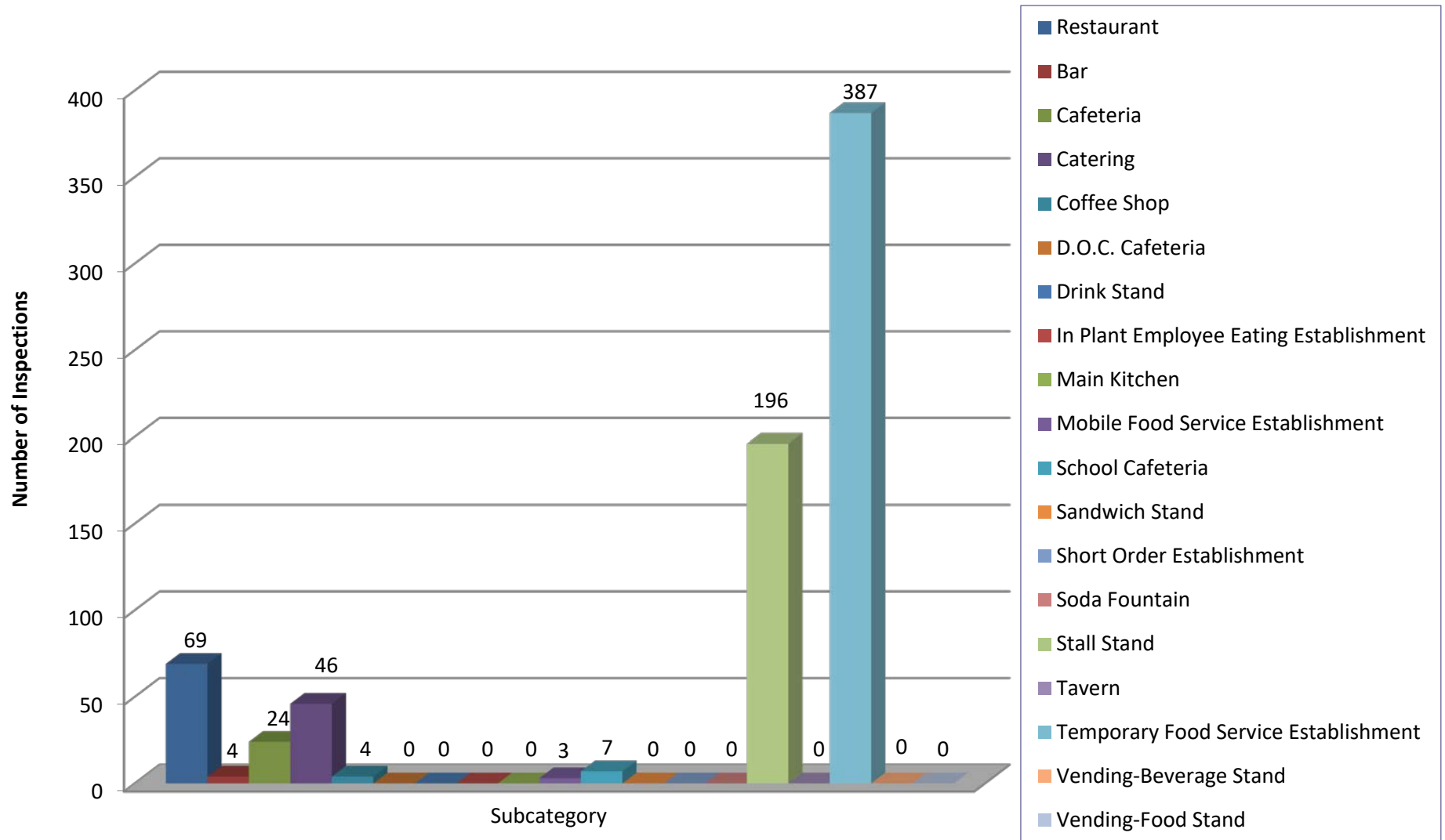


Figure 5. Number of sanitation inspections conducted of Eating and Drinking Establishments by the Division of Environmental Health in FY 16.

# ACCOMPLISHMENTS

## FOOD ESTABLISHMENTS

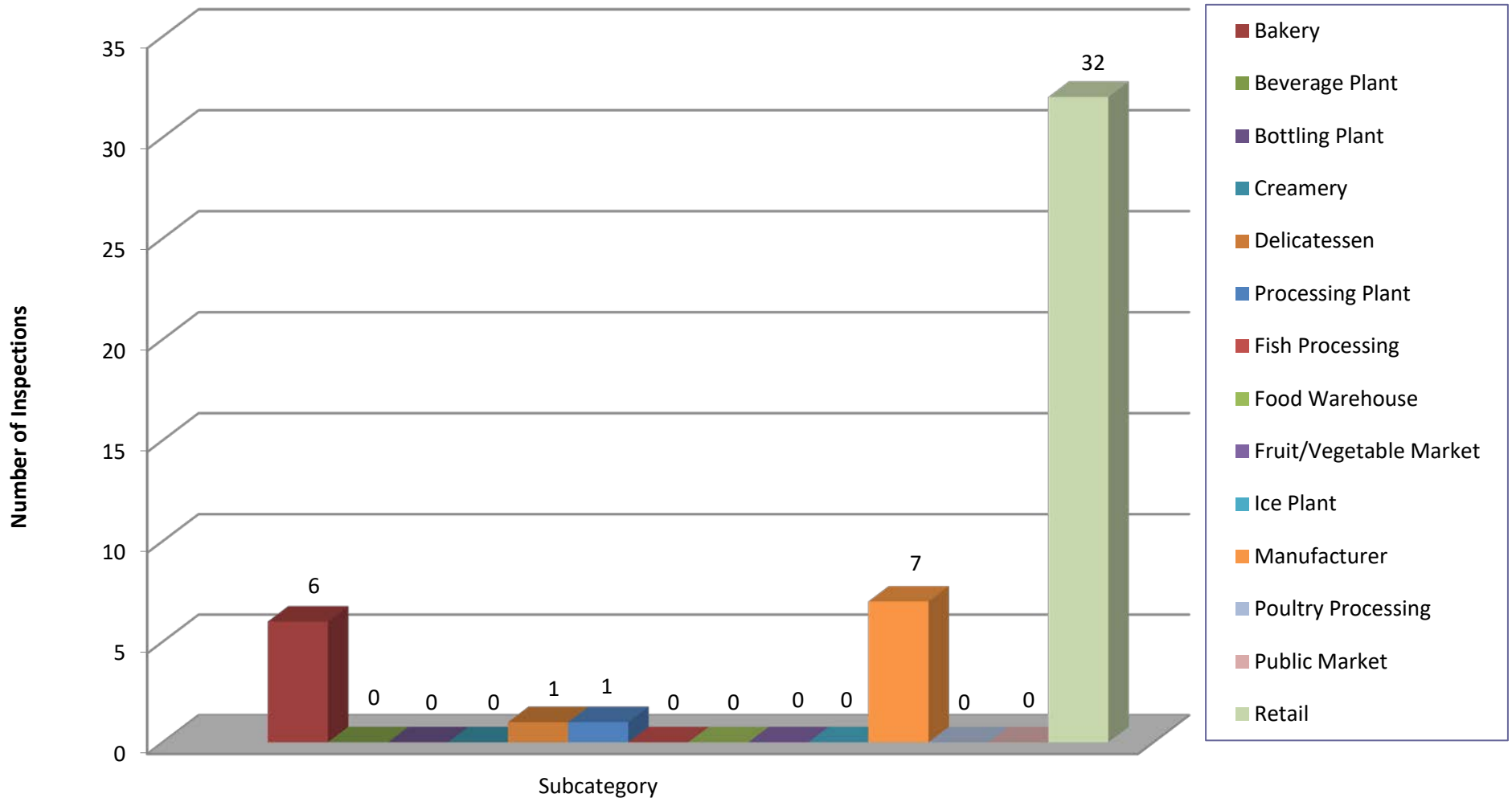


Figure 6. Number of sanitation inspections conducted of Food Establishments by the Division of Environmental Health in FY 2016.

# ACCOMPLISHMENTS

## 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, 715 Sanitary Permits were issued to these 658 establishments in FY 2016, with 258 inspections conducted of 85 establishments. This is an increase of 9.3% from FY 2015 in the number of inspections conducted for non-food facilities.

Institutional Facilities (86% of all non-food facility inspections) were inspected the most among non-food facilities during the fiscal year, followed by Cosmetic Establishments (7%). See **Tables 16-19** and **Figures 7-9** for complete inspection data of non-food regulated establishments for FY 2016.

### Institutional Facilities

Childcare centers (68.78% of all institutional facility inspections), school buildings (14.48%), family day care home (9.5%), and group foster homes (7.24%), 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 2016 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 conduct inspection of childcare facilities.

Outside the pilot project, “Community-Supported School Maintenance Program,” there was one (public) school that was inspected in FY 2016 (October 2015), which was Simon Sanchez High School (SSHS). It was necessary for DEH to conduct a regular, compliance inspection of the school as its sanitary condition was not improving under the pilot project. The school had received a letter grade of “B” only after making numerous on-the-spot corrections over a three-day period of inspection. Had such allowance not been given to SSHS, the high school would have received demerit score exceeding 40 points and would have resulted in the suspension of its Sanitary Permit. The letter grade of the school was later downgraded to a “C” for repeat violations during a follow-up inspection. The school will continue to be monitored in FY 2017.

### Hotel/Motel Sanitation

DEH performed 18 inspections within the Hotel/Motel category in FY 2016 (**Table 17, Figure 8**). The majority of these inspections were for Temporary Workforce Housing (94.4%).

### Cosmetic Establishments

Beauty salons and therapeutic massage establishments (within the Cosmetic Establishment category) received a total of 19 inspections in FY 2016 (**Table 18, Figure 9**).

### Laundry and Dry-Cleaning Establishments

Low priority was given for the inspections of laundries and dry cleaners. No inspections of this category were performed (**Table 19, Figure 10**).

### Public Swimming Pools

DEH did not inspect any public swimming pools in FY 2016. See **Table 20** and **Figure 11** for complete data for public swimming pool inspections.

### Edible Garbage Feeding Establishments

There was 1 permitted establishment in this category in FY 2016, which was not inspected during the year (**Table 21**).

# 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 Complaint	Other	A	B	C	D	None		
Child Care Center/Nursery	39	39	100	152	140	10	2	0	140	9	1	0	2	0	0
Family Day Care Home	9	7	78	21	21	0	0	0	8	0	0	0	13	0	0
Group Day Care Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Government/Public Bldg.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Foster Home	4	4	100	16	15	1	0	0	15	1	0	0	0	0	0
Juvenile Detention Center	0	0	0	0	0	0	0	0	0	0	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	65	5	8	32	16	16	0	0	16	0	0	0	16	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>	120	55	46	221	192	27	2	0	179	10	1	0	31	0	0

\* 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 2016.**

# 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 Complaint	Other	A	B	C	D	None		
Hotel	36	1	3	1	0	0	0	1	0	0	0	0	1	0	0
Dormitory	109	12	11	17	12	5	0	0	6	11	0	0	0	0	0
Motel	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL:</b>	148	13	9	18	12	5	0	1	6	11	0	0	1	0	0

Table 17. Number of sanitation inspections and investigations of Hotel Establishments conducted by the Division of Environmental Health in FY 2016.

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 Complaint	Other	A	B	C	D	None		
Cosmetology School	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barber Shop	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beauty Salon	107	14	13	16	11	3	2	0	12	3	0	0	1	0	0
Massage Parlor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Therapeutic Massage Establishment	82	3	4	3	0	0	3	0	2	0	0	0	1	0	0
Tattoo Shop	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL:</b>	217	17	8	19	11	3	5	0	14	3	0	0	2	0	0

Table 18. Number of sanitation inspections and investigations of Cosmetic Establishments conducted by the Division of Environmental Health in FY 2016.

# 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 Complaint	Other	A	B	C	D	None		
Dry Cleaning	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Laundry	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL:</b>	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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 Complaint	Other	A	B	C	D	None		
Public Swimming Pool	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wading Pool	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL:</b>	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 20. Number of sanitation inspections and investigations of Swimming Pools conducted by the Division of Environmental Health in FY 2016.

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 Complaint	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 2016.

# ACCOMPLISHMENTS

## INSTITUTIONAL FACILITIES

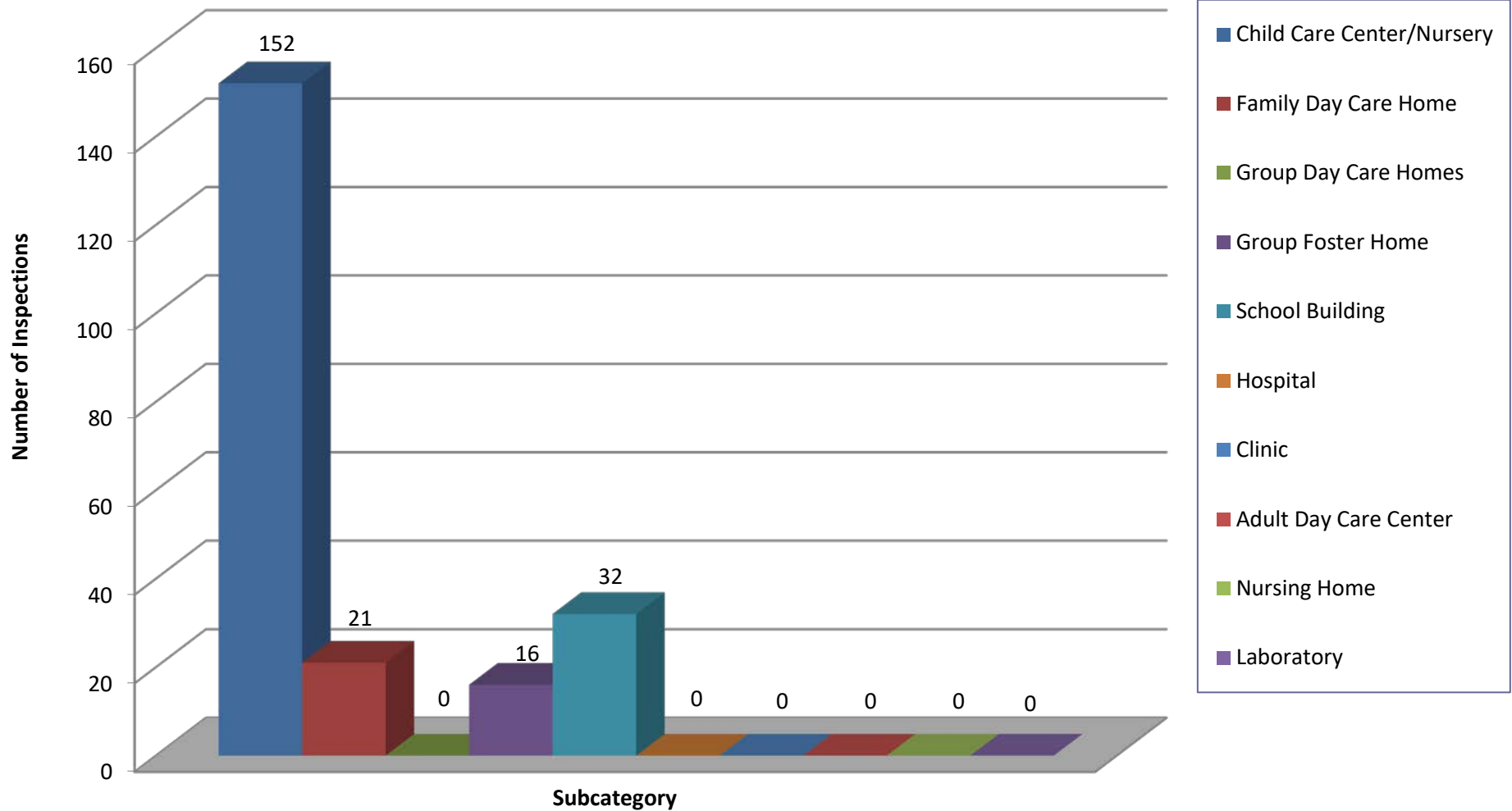


Figure 7. Number of sanitation inspections conducted of Institutional Facilities by the Division of Environmental Health in FY 2016.



HOTEL ESTABLISHMENTS

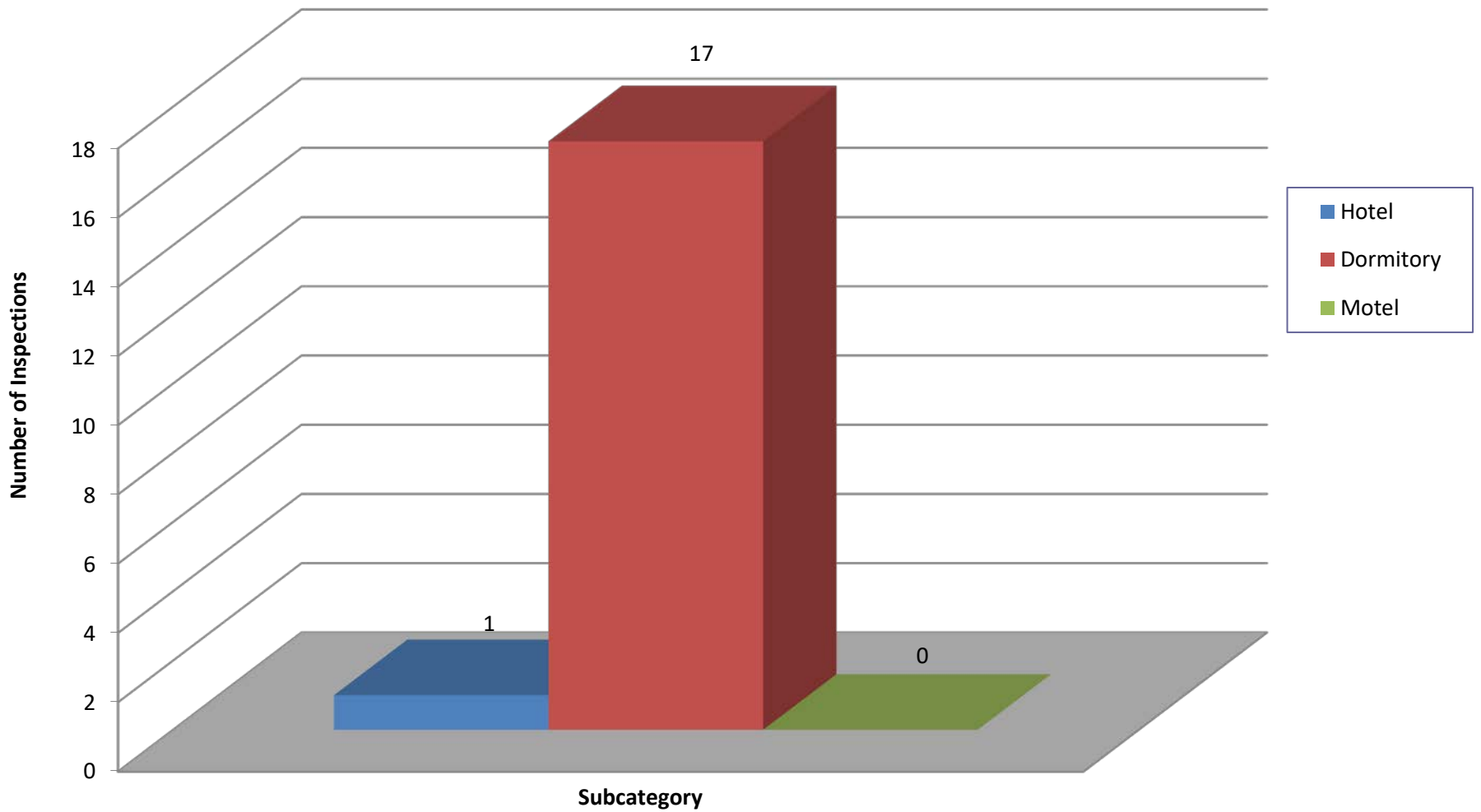


Figure 8. Number of sanitation inspections conducted of Hotel Establishments by the Division of Environmental Health in FY 2016.

# ACCOMPLISHMENTS

## COSMETIC ESTABLISHMENTS

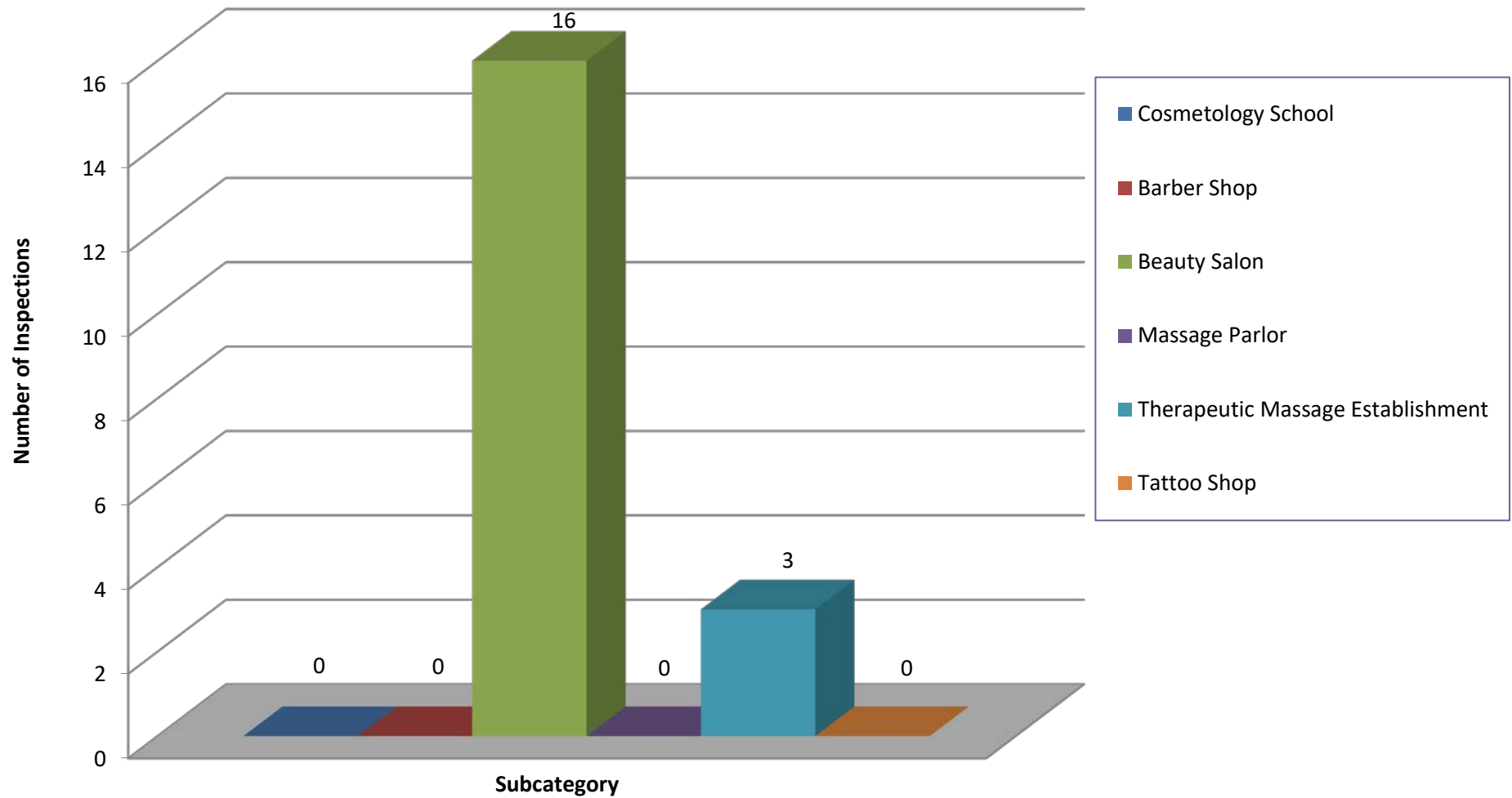


Figure 9. Number of sanitation inspections conducted of Cosmetic Establishments by the Division of Environmental Health in FY 2016.

DRY CLEANING AND LAUNDRY ESTABLISHMENTS

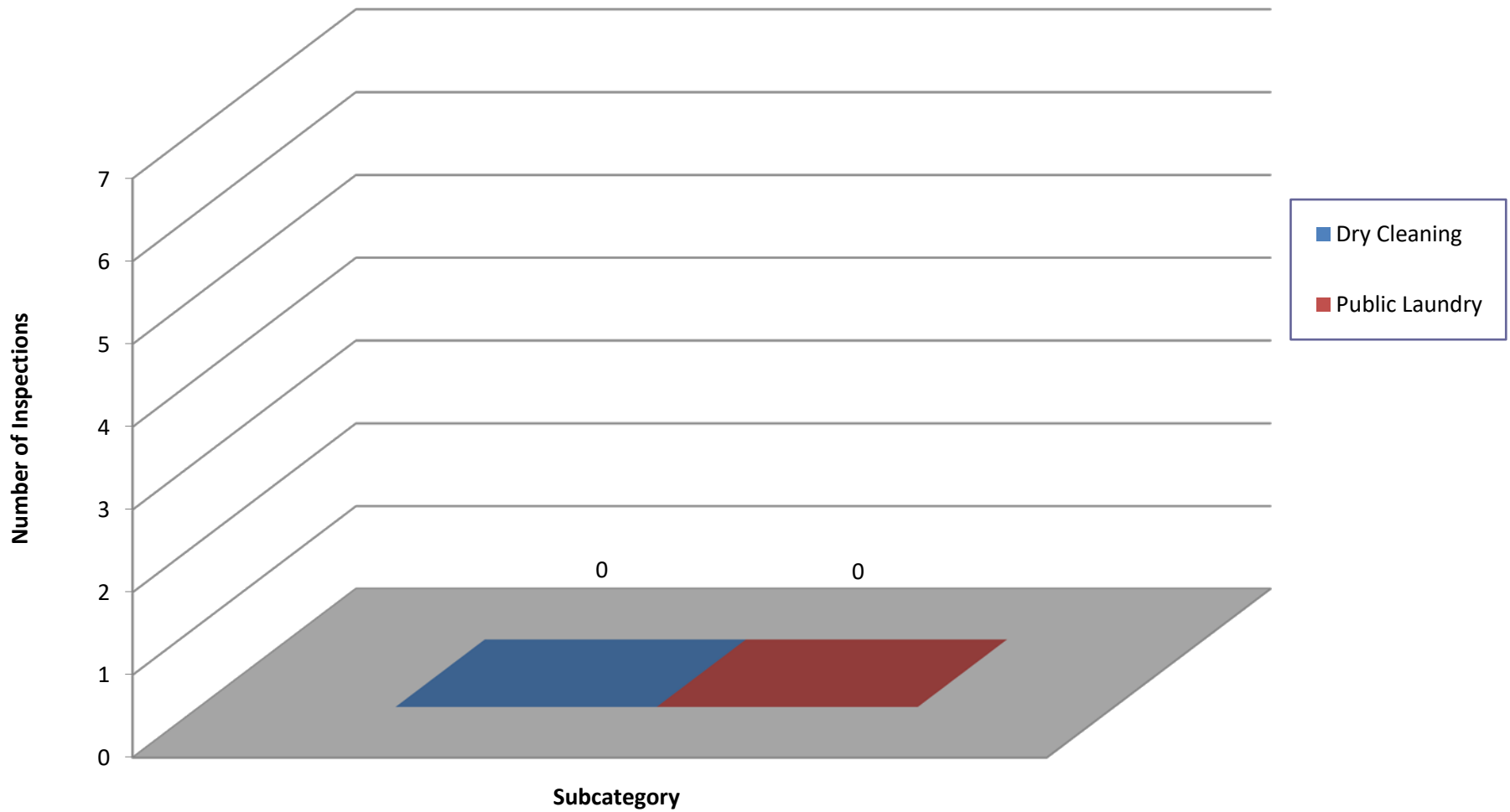


Figure 10. Number of sanitation inspections conducted of Dry Cleaning and Laundry Establishments by the Division of Environmental Health in FY 2016.

PUBLIC SWIMMING POOLS

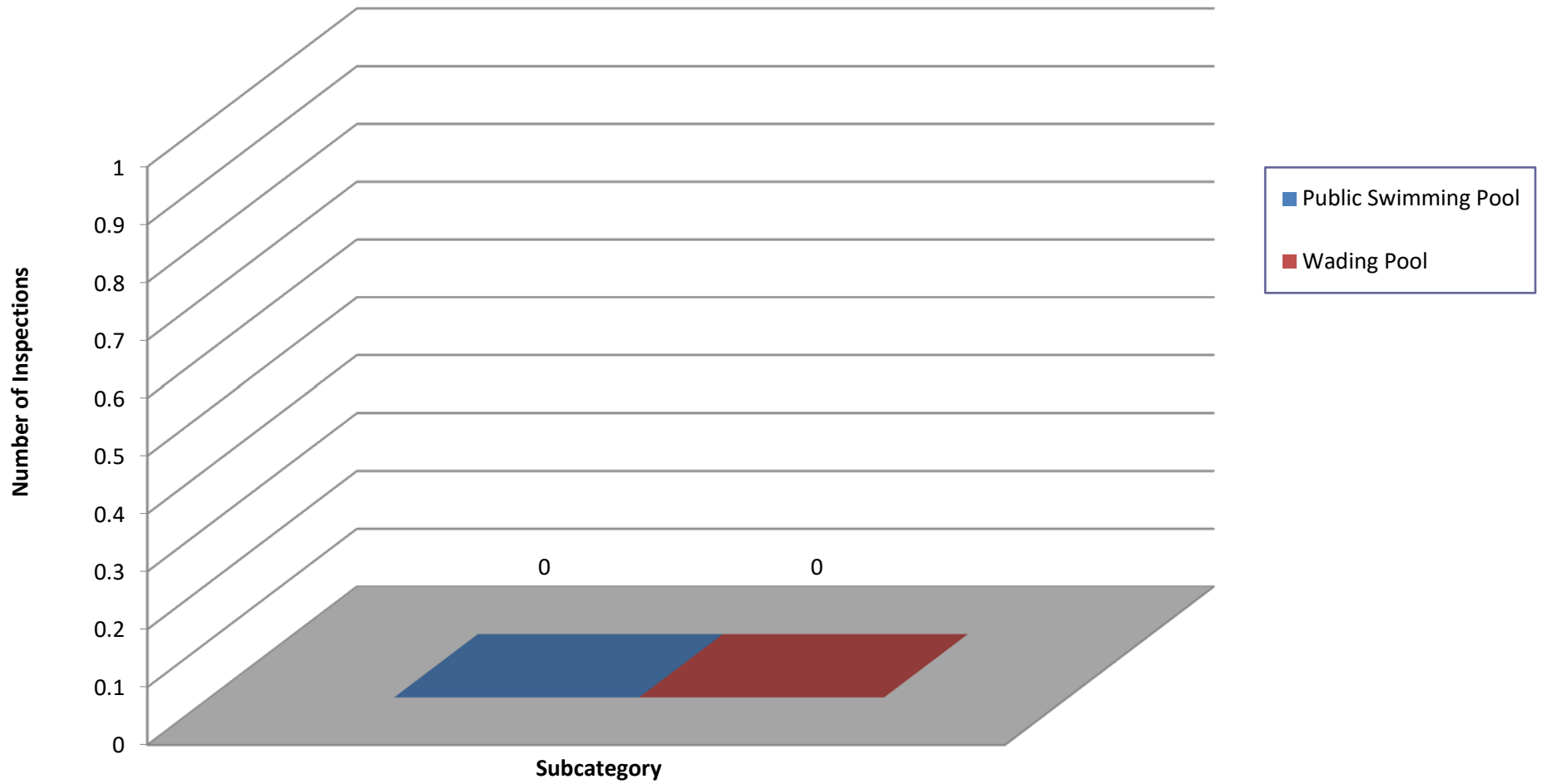


Figure 11. Number of sanitation inspections conducted of Swimming Pools by the Division of Environmental Health in FY 2016.

# 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-Operation Inspections conducted by Plans & Specifications (P&S) decreased by 2.97% in FY 2016 (**Table 22**) compared to last fiscal year, from 606 to 588. Three hundred fifty-five inspections were conducted in Fiscal 2016 of new establishments, which made up the majority of inspections by Plans and Specifications. Assessments, which are done to determine compliance on a less formal basis than a pre-operation inspection, were only 3.74% of inspections conducted by the section. Business license clearances of regulated establishments comprised nearly 39.5% of all clearances conducted by the section. P&S also reviewed 476 construction and floor plans, provided 1,099 consultations, and answered 1,031 phone inquiries in Fiscal Year 2016.

Complete data on the number of Pre-Operation Inspections performed by DEH in FY 2016 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 happened this fiscal year. The Division did not witness any of the approved exhumations.

Cemeteries were included as sites to be monitored for mosquito habitat reduction, as the numerous vases and other containers in cemeteries provide excellent breeding sites.

### Radiological Health

There were no significant events in matters related to radiological health that happened this fiscal year.

### Compressed Air

No referrals or complaints were received by DEH during this reporting period.

### Solid Waste

No significant inspections or investigations transpired relevant to solid waste in FY 2016.

ONE-STOP CENTER ACTIVITIES						
Number of Pre-Operation Inspections		Number of Business Clearances		Number of Plan Reviews	Number of Consultations	Number of Phone Inquiries
New Establishment	355	Business License (Non-HRE)	190	476	1099	1031
		Business License (HRE)	312			
Change of Ownership	138	Alcohol & Beverage License	85			
Renovation or Conversion	0	Childcare License	20			
Assessment	22	H-2 Workers License	94			
Occupancy	73	Contractor License	89			
<b>Total</b>	<b>588</b>	<b>Total</b>	<b>790</b>			

**Table 22. Accomplishments of the Division of Environmental Health at the One-Stop Center in Fiscal Year 2016**

# ACCOMPLISHMENTS

<b>PRE-OPERATION INSPECTIONS</b>						
CATEGORY & SUBCATEGORY		TYPE OF INSPECTION				
		NEW	CHANGE OF MANAGEMENT	ASSESSMENT	OCCUPANCY	TOTAL
<b>EATING &amp; DRINKING ESTABLISHMENTS</b>	Bar	3	22	1	3	29
	Cafeteria	2	1	0	0	3
	Catering	2	1	0	1	4
	Coffee Shop	11	9	1	8	29
	Drink Stand	5	3	0	2	10
	Restaurant	18	25	2	14	59
	Sandwich Stand	0	0	0	0	0
	Short Order Establishment	0	2	0	0	2
	Soda Fountain	2	0	0	1	3
	Stall Stand	15	0	0	5	20
	Tavern	2	0	0	0	2
	Mobile Food Service Establishment	25	2	0	0	27
	Temporary Food Service Establishment	64	0	0	0	64
	Vending Machine (Food)	1	0	0	0	1
	Vending Machine (Beverage)	17	1	0	0	18
	<b>Subtotal</b>	<b>167</b>	<b>66</b>	<b>4</b>	<b>34</b>	<b>271</b>
<b>INSTITUTIONAL FACILITY</b>	Child Care Center	2	1	0	0	3
	Family Day Care Home	5	0	0	0	5
	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	3	3
	School	0	0	4	3	7
<b>Subtotal</b>	<b>7</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>18</b>	
<b>PRE-OPERATIONS INSPECTIONS</b>						
CATEGORY & SUBCATEGORY		TYPE OF INSPECTION				
		NEW	CHANGE OF MANAGEMENT	ASSESSMENT	OCCUPANCY	TOTAL
<b>FOOD ESTABLISHMENT</b>	Bakery	4	3	0	2	9
	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	23	3	0	2	28
	Fruit/Vegetable Market	0	0	0	0	0
	Ice Plant	0	0	0	0	0
	Manufacturer	31	6	1	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	33	31	8	20	92
<b>Subtotal</b>	<b>91</b>	<b>43</b>	<b>9</b>	<b>24</b>	<b>167</b>	

**Table 23. Number of Pre-Operation Inspections conducted by DEH in FY 2016 for Category (continued on next page).**

# ACCOMPLISHMENTS

PRE-OPERATIONS INSPECTIONS						
CATEGORY & SUBCATEGORY		TYPE OF INSPECTION				
		NEW	CHANGE OF MANAGEMENT	ASSESSMENT	OCCUPANCY	TOTAL
HOTEL	Hotel	1	2	3	1	7
	Motel	0	0	0	0	0
	Dormitory	41	0	2	0	43
	<b>Subtotal</b>	<b>42</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>50</b>
COSMETIC ESTABLISHMENT	Barber Shop	4	0	0	0	6
	Beauty Salon	12	9	0	1	22
	School of Cosmetology	0	0	0	0	0
	Massage Parlor	0	0	0	0	0
	Therapeutic Massage	13	15	0	1	29
	Tattoo Shop	3	1	0	0	4
	<b>Subtotal</b>	<b>32</b>	<b>25</b>	<b>0</b>	<b>2</b>	<b>59</b>
SWIMMING POOL	Public Swimming Pool	11	1	0	3	15
	Wading Pool	2	0	0	2	4
	<b>Subtotal</b>	<b>13</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>19</b>
LAUNDRY & DRY CLEANING	Dry Cleaning Establishment	0	0	0	0	0
	Public Laundry	3	0	0	1	4
	<b>Subtotal</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>
Edible Garbage Feeding Establishment		0	0	0	0	0
<b>GRAND TOTAL</b>		<b>355</b>	<b>138</b>	<b>22</b>	<b>73</b>	<b>588</b>

(cont. from last page) Table 23. Number of Pre-Operation Inspections conducted by the DEH in FY 2016.

## Wastewater and Toilet

Section 39107 of Title 10 GCA, Chapter 39 requires DEH to adopt rules and regulations governing the operation of chemical toilets. Meetings were held on 12/15/15 and 12/23/15 with DEH staff to work on the proposed rules and regulations. DEH learned that a Sanitary Permit could not be issued for chemical toilets because Title 10 GCA, Chapter 21 (Sanitary Permit) does not authorize the issuance of such permit to chemical toilet operators. Thus, DEH was required to revise the proposed regulations to include provisions specific to the issuance of a “Chemical Toilet Permit,” and the manner such permit was to be suspended, revoked, and graded, along with the posting of placards and inspection reports. The proposed rules and regulations were not finalized this fiscal year, but are anticipated to be completed in FY 2017.

## VECTOR CONTROL

### Mosquito Surveillance and Control Program

The Mosquito Surveillance and Control Program (MSCP) was relatively active in FY 2016 as it stepped-up its efforts in protecting the public from potential mosquito-borne diseases. MSCP enacted and promoted public education, surveillance, and source reduction in the control of mosquitoes and their bites. Mosquito surveillance included collection of adult and larval mosquitoes. Regulatory actions focused on tire shops, recycling companies, and public and private premises.

A total of three vector complaints were received for this fiscal year. Two cases were substantiated and closed. Two cases (one carry-over from FY 2015 and one from FY 2016) were carried over to FY 2017.

# ACCOMPLISHMENTS

## *Mosquito & Vector Surveillance*

The MSCP monitored mosquito activities prior to, and during, FestPac to identify areas of focus for implementing control measures. The MSCP's surveillance strategy during FestPac consisted of monitoring for mosquito abundance and activity over time at the lodging facilities and at major event sites. Both adult mosquitoes and larvae were collected. The larvae were raised to adults, and along with the adult mosquitoes that were collected, all were prepared for submission to the Preventive Medicine Department (PMD) of the U.S. Naval Hospital Guam for further species identification and pathogen analysis. The data provided by PMD were to be used for targeting control efforts and determining future activities.

## *Guam Environmental Public Health Laboratory – Mosquito Lab*

The mosquito lab within the Guam Environmental Public Health Laboratory (GEPHL) was built to enhance the capacity of the Mosquito Surveillance and Control Program. The goals of the laboratory include determining 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 established data will provide information on the dynamics of mosquitoes and mosquito-borne diseases in Guam.

A ribbon-cutting ceremony was held for the GEPHL on March 10, 2016. Mayor Melissa Savares of Dededo provided welcoming remarks, followed by speeches from Chief EPHO M. Thomas Nadeau and the U.S. Department of the Interior's CNMI Field Representative, Mr. Henry Blanco. The Keynote Address was given by the Honorable Eddie B. Calvo, Governor of Guam. The MSCP mascot, Miss Skeeta, made her public debut at the ceremony. GEPHL could not be occupied due to several HVAC challenges during FY 2016; consequently, it was not operational during FestPac.

## *Mosquito-Borne Diseases and Outbreak Response*

Three mosquito-borne diseases (MBD) were reported in FY 2016:

1. February 15, 2016: One imported case of suspected Dengue Fever from the Philippines:
  - Guam resident residing in Dededo
  - Patient seen on Guam and returned to Philippines to seek treatment
  - Serology testing: Dengue Fever Ab, IgG: Positive
  - DEH performed surveillance within 400 meters from patient's residence
  - No known locally transmitted cases of MBD resulted from this patient
  - 175 brochures were distributed to residents living near the case patient
2. March 11, 2016: One imported case of suspected Dengue Fever from the Philippines:
  - Guam resident residing in Sinajana
  - Patient treated on Guam
  - Serology testing: Dengue Fever Ab, IgG: Abnormally High
  - DEH performed surveillance within 500 meters from patient's residence
  - No known locally transmitted cases of MBD resulted from this patient
  - 58 brochures were distributed to residents and businesses near the case patient
3. May 25, 2016: One imported case of suspected Dengue Fever from the Solomon Islands:
  - Visiting FestPac delegate who temporarily resided at L.P. Untalan Middle School in Barrigada



## ACCOMPLISHMENTS

- Patient treated on Guam
- Bureau of Communicable Disease Control of the Division of Public Health, DPHSS activated Epidemiology Surveillance
- No known locally transmitted cases of MBD resulted from this patient
- DEH's MCSP conducted a 656-foot radius inspection of homes and businesses surrounding L.P. Untalan Middle School. DEH led a house-to-house surveillance and education campaign to eliminate breeding sites for the *Aedes* mosquitoes. DEH advised residents and businesses of the importance of source reduction and properly discarding containers that can hold water and serve as a habitat for mosquitoes. DEH staff visited 38 homes and three businesses:
  - *Mosquito harborage and breeding sites*: DEH found that a majority of the homes had containers, such as buckets, pet dishes, and water catchments that held water. A few homes had tires on the property.
  - *Mosquito Control (Larvicide)*: DEH offered free application of the larvicide [*Bacillus thuringiensis israelensis* (Bti)] to homeowners and business owners; ten homeowners accepted the service.

### Press Releases

The MSCP issued the following press releases to the public on mosquito control:

1. 2015-093: "Eliminating Mosquito Breeding Sites and Protecting Against Bites" on December 14, 2015
2. 2016-007: "Mosquito Control and Prevention" on February 4, 2016
3. 2016-034: "Pesticide Application of Major FestPac Facilities" on May 4, 2016
4. 2016-038: "Availability of Free Pesticide Application for Pregnant Women Households (Only for a Limited Time)" on May 13, 2016
5. 2016-040: "Mosquito Breeding Sites/Habitat Source Reduction" on May 20, 2016
6. 2016-041: "DPHSS Working with Partners for Enhanced Surveillance during FestPac" on May 20, 2016

### Rodent Surveillance and Control Program

Rodent surveillance and control activities remained inactive. No routine surveillance activities were conducted aside from normal inspections of private premises due to complaints received by the bureaus from the public.

A total of nine rodent-related complaints were received for this fiscal year. Out of the nine cases, three were substantiated and two were unsubstantiated. A total of seven out of the nine cases were closed, which left two cases pending corrective action for FY 2017. A total of eight complaints were carried-over to the next fiscal year (six from FY 2015 and the two aforementioned cases for FY 2016).

### Fly Control Program

Four complaints were received and addressed for Fiscal Year 2016 regarding flies. Three cases were substantiated and closed; one unsubstantiated case was also closed. Of the five carry-overs from FY 2015, three were closed and two were still pending corrective action and were carried into Fiscal Year 2017.

### Complaints

A total of 199 complaints were received in Fiscal Year 2016, with the 3<sup>rd</sup> quarter having the most complaints (66). In addition, 4 complaints from FY 2014 and 56 from FY 2015 were carried into FY 2016. One hundred seventy-nine cases were closed this fiscal year, and 80 complaints pending corrective action will be addressed in Fiscal Year 2017.

# ACCOMPLISHMENTS

## DIVISION OF ENVIRONMENTAL HEALTH ACTIVITIES

### Training and Education

The Division of Environmental Health took advantage of several training opportunities during FY 2016, as well as providing various educational presentations to the public.

#### A. Off-Island Trainings/Conferences

- 11/4-5/2015: U.S. Food and Drug Administration Partnership for Food Protection Face-to-Face Meeting in Indianapolis, IN. Attended by R. Rabago.
- 11/17-20/2015: INFORM Conference in Phoenix, AZ. Attended by C. Baradi and K. Del Mundo.
- 11/30/15-12/5/2015: World Health Organization's First Regional Training on Health, Environment and Development in Incheon, Republic of Korea. Attended by R. Rabago
- 01/25-28/2016: Florida Mosquito Control Association's 2016 Dodd Short Courses in Altamonte Springs, FL. Attended by M. Lastimoza and K. Duenas.
- 04/16-04/20/2016: Conference for Food Protection (CFP) in Boise, ID. Attended by M. Scroggs.
- 06/11-12/2016: Certified Professional in Food Safety (CPFS) Review Course in San Antonio, TX (NEHA AEC). Attended by L. Navarro.
- 06/13-16/2016: 2016 National Environmental Health Association (NEHA) Conference in San Antonio, TX. Attended by T. Nadeau, M. Scroggs, and L. Navarro.
- 06/15-17/2016: Public Health Improvement Training (PHIT) in Baltimore, MD. Attended by C. Baradi
- 07/12-14/2016: National Retail Food Regulatory Program Standards Self-Assessment and Verification Audit Workshop in Washington, D.C. Attended by K. Del Mundo.
- 07/17-22/2016: FileMaker Developer's Conference in Las Vegas, NV. Attended by J. Pinault.
- 07/18-29/2016: Hands-on Food Microbiology Training with the FDA Pacific Regional Laboratory-Southwest in Irvine, CA. Attended by C. Baradi and K. Del Mundo.
- 08/09-11/2016: U.S. Food and Drug Administration Partnership for Food Protection Face to Face Meeting, in Kansas City, MO. Attended by R. Rabago and J. Garcia.
- 09/05-09/2016: Certified Playground Safety Inspector (CPSI) Course in Berkeley, CA. Attended by J. Cruz and E. Lum.
- 09/19-21/2016: 2016 National Association for Regulatory Administration (NARA) Licensing Seminar in Portland, Oregon. Attended by M. Scroggs.
- 09/20-22/2016: 2016 Pacific Regional Retail Food Seminar in Reno, Nevada. Attended by K. Del Mundo who was invited to be a Guest Speaker to present on the 2016 Festival of the Pacific Arts.

#### B. In-house, On-Island Trainings, and On-Island Presentations

- 10/07/2015: "ICS-300 Intermediate ICS for Expanding Incidents" conducted by the Office of Civil Defense and Port Authority of Guam staff at Guam Hilton Hotel in Tumon. Attended by T. Nadeau, R. Rabago, C. Naval, and R. Suva.
- 10/07/2015: "Guam Food Code Five Food Code Interventions to Prevent Foodborne Illness training" conducted by K. Del Mundo. Attended by Payless Supermarket managers and supervisors.
- 10/28/2015: "Using Time as a Public Health Control Presentation" conducted by K. Del Mundo. Attended by GDOE and Sodexo cafeteria staff.

## ACCOMPLISHMENTS

- 12/15/2015: “Reporting Requirements for Child Abuse and Neglect Incidents” conducted by the staff of the Bureau of Social Services Administration, Division of Public Welfare of DPHSS at DEH in Mangilao. Attended by R. Rabago, M. Lastimoza, K. Duenas, D. Dominguez, J. Garcia.
- 12/30/2015 “Introduction to FileMaker Custom App Development” conducted by Cindy Naval at DEH in Mangilao. Attended by R. Rabago, M. Lastimoza, C. Baradi, K. Duenas, D. Dominguez, J. Garcia.
- 1/19/2016: “HIPAA” conducted by Dr. Suzanne S. Kaneshiro at the Division of Senior Citizens conference room in Mangilao. Attended by T. Nadeau, C. Naval, R. Rabago, M. Lastimoza, K. Duenas, D. Dominguez, J. Garcia, M. Scroggs, K. Del Mundo, D. Mitchell, and F. Epres.
- 1/19/2016: “Introduction to Adult Protective Services” at the Division of Senior Citizens conference room in Mangilao. Attended by T. Nadeau, R. Rabago, M. Lastimoza, K. Duenas, D. Dominguez, J. Garcia.
- 02/01/2016: “Zika Virus” webinar presented by CDC/CSTE. Attended by R. Rabago, M. Lastimoza, C. Baradi, K. Duenas, D. Dominguez, and J. Garcia.
- 2/4/2016: “FileMaker Inspection Report” training conducted by C. Naval at DEH in Mangilao. Attended by R. Rabago, M. Lastimoza, C. Baradi, K. Duenas, D. Dominguez, J. Pinaula, and J. Garcia.
- 02/16/2016: “Yelp LIVES Program” presentation conducted by K. Del Mundo. Attended by T. Nadeau, R. Rabago, C. Naval, M. Scroggs, C. Baradi, M. Lastimoza, D. Mitchell, E. Lum, L. Navarro, K. Duenas, J. Cruz, J. Garcia, and D. Dominguez, and J. Pinaula.
- 02/26-27/2016: National Swimming Pool Foundation’s “Pool/Spa Operator” certification training conducted by William Sexton of Best Aquatic at Guam Hilton Hotel in Tumon. Attended by C. Baradi, D. Dominguez, J. Garcia, and J. Cruz, M. Scroggs, K. Del Mundo, D. Mitchell, E. Lum, L. Navarro, and J. Cruz.
- 02/28/2016: National Swimming Pool Foundation’s “Pool/Spa Inspector” certification training conducted by William Sexton of Best Aquatic at Guam Hilton Hotel in Tumon. Attended by T. Nadeau, R. Rabago, M. Lastimoza, C. Baradi, K. Duenas, D. Dominguez, J. Garcia, M. Scroggs, K. Del Mundo, D. Mitchell, E. Lum, J. Cruz, and L. Navarro.
- 3/4/2016: “Zika in the U.S.: What Environmental Health and Pest Management Professionals Need to Know” Webinar, conducted by Sarah R. Michaels, MSPH and sponsored by the National Environmental Health Association. Attended by R. Rabago, M. Lastimoza, C. Baradi, K. Duenas, D. Dominguez, J. Garcia, and C. Naval.
- 03/04/2016: “HIPAA” conducted by Dr. Suzanne S. Kaneshiro at DPHSS to DPHSS staff. Attended by E. Lum and L. Navarro.
- 3/9/2016: “Fleet Service Training” conducted by the General Services Agency. Attended by C. Baradi, D. Dominguez, J. Garcia, J. Cruz, and J. Pinaula.
- 03/22-03/25/2016: “Strategic National Stockpile” (SNS) conducted in Tiyan by the Office of Civil Defense. Attended by E. Lum.
- 03/23/2016: Overview of Environmental Health Issues for the Upcoming Mass Gathering conducted by T. Nadeau at Holiday Inn Resort in Tumon during the Division of Public Health, DPHSS’ “Preparing for Infectious Diseases in the Pacific through Regional Collaboration Conference.” Attended by R. Rabago.
- 03/23/16: NEHA Webinar “Local Health Departments: Preparing and Preventing Zika.” Attended by R. Rabago, M. Lastimoza, C. Baradi, K. Duenas, D. Dominguez, and J. Garcia.
- 04/04-15/2016: “DOD Pesticide Applicator Recertification in CORE and Category 8 – Public Health” training conducted by LCDR Palmer, Chief Webb, and HM3 Ruane of

## ACCOMPLISHMENTS

U.S. Navy Environmental and Preventive Medicine Unit Six at U.S. Naval Hospital in Agana Heights (04/04-23/2016) and at Bureau of Management Support, Division of Public Welfare, DPHSS at Legacy Square in Mangilao (04/13-15). An examination was given and all 10 EPHOs who passed the test. Attended by R. Rabago, M. Lastimoza, C. Baradi, K. Duenas, D. Dominguez, J. Garcia, M. Scroggs, K. Del Mundo, E. Lum, L. Navarro, and J. Cruz.

- 04/29/2016: “COOP Briefing” by Patrick Lujan of DPH, Public Health Emergency Preparedness Program at the PHICC, DPHSS in Mangilao. Attended by T. Barcinas, D. Mitchell, E. Lum, L. Navarro, F. Epres, M. Lastimoza, C. Baradi, J. Garcia, D. Dominguez, J. Pinaula, J. Mendiola.
- 05/06/2016: “HIPAA” training at the Division of Senior Citizens conference room in Mangilao. Attended by C. Baradi.
- 05/9-11/2016: “Shipping of Dangerous Goods with Emphasis on Class 6.2 Infectious Substances (Category A & B) and Related Hazardous Materials (IATA training)” by Vasiti Uluviti and Emi Chutaro of Pacific Islands Health Officers Association at the Pacific Star Resort and Spa in Tumon. Attended by C. Baradi and K. Del Mundo
- 05/10/2016: “Guam Food Code Five Food Code Interventions to Prevent Foodborne Illness training” conducted by K. Del Mundo at the Division of Senior Citizens conference room in Mangilao. Attended by 2016 FestPac caterers and stall stand owners.
- 05/18/2016: “Temporary Health Certificate Food Safety Presentation” conducted by D. Mitchell and L. Navarro at the Division of Senior Citizens conference room in Mangilao. Attended by 2016 FestPac TFSE employees.
- 06/03/2016: “Temporary Health Certificate Food Safety Presentation” conducted by K. Del Mundo at the Yigo Gym. Attended by Yigo Citrus Festival TFSE employees.
- 06/08/2016: “How to Fill Out GFC Form A and B” training sponsored by the Small Business Development Center (SBDC) and conducted by D. Mitchell and K. Del Mundo at the SBDC Training Room. Attended by SBDC applicants.
- 06/15/2016: “How to Fill Out GFC Form C and Attachment C-1” training sponsored by SBDC and conducted by E. Lum and K. Del Mundo at the SBDC Training Room. Attended by SBDC applicants.
- 06/16/2016: FileMaker training on Guam Food Code inspection forms conducted by C. Naval at DEH in Mangilao. Attended by R. Rabago, M. Lastimoza, C. Baradi, J. Garcia, J. Pinaula, and K. Duenas.
- 06/27/2016: FileMaker training on Guam Food Code inspection forms conducted by C. Naval at DEH in Mangilao. Attended by R. Rabago, M. Lastimoza, C. Baradi, J. Garcia, and K. Duenas.
- 07/11/2016: “School Sanitation and Pilot Program Training” for GDOE School Safety Liaison Team, Lagu and Luchan Schools, conducted by C. Baradi
- 07/13/2016: “School Sanitation and Pilot Program Training” for GDOE School Safety Liaison Team, Kattan and Haya Schools, conducted by C. Baradi
- 07/28/2016: Alerton’s Heating, Ventilation, and Air Conditioning (HVAC) Training at GEPHL in Dededo. Attended by M. Lastimoza, M. Scroggs, and E. Lum.
- 08/08/2016: “Council to Improve Foodborne Outbreak Response (CIFOR) Workshop” conducted by FDA Retail Food Specialist Richard Ramirez, and DEH Food Safety Program at the Pacific Star Resort & Spa. Attended by DPHSS environmental health, epidemiology, and laboratory staff, military environmental health counterparts, and GMH laboratory staff.

## ACCOMPLISHMENTS

- 08/09/2016: “Temporary Food Establishment (TFE) Training” conducted by FDA Retail Food Specialist Richard Ramirez, and DEH Food Safety Program, at the Pacific Star Resort & Spa. Attended by DEH staff and military environmental health counterparts.
- 08/30/2016: FileMaker Sync training conducted by C. Naval and J. Pinaula at DEH in Mangilao. Attended by R. Rabago, M. Lastimoza, C. Baradi, J. Garcia, M. Scroggs, E. Lum, L. Navarro, and K. Duenas.
- 09/14/2016: CDC Webinar “Guidelines for *Aedes aegypti* and *Aedes albopictus* Surveillance and Insecticide Resistance Testing.” Attended by R. Rabago, M. Lastimoza, C. Baradi, J. Garcia, and K. Duenas.
- 09/09/2016: “Temporary Health Certificate Food Safety Presentation” conducted by J. Garcia and K. Del Mundo at Turé. Attended by Donne Festival TFSE employees.

### Rules and Regulations

Several rules and regulations were drafted, or initiated, during FY 2016.

#### *Chemical Toilets*

The draft proposed *Rules and Regulations Governing Chemical Toilets* were not finalized this fiscal year. DEH worked on the revisions to reflect the issuance of a Chemical Toilet Permit instead of a Sanitary Permit, which is authorized pursuant to Title 10 GCA, Chapter 39.

#### *Medical Marijuana*

DEH continued working towards the adoption of the proposed draft *Rules and Regulations Governing Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013*. The administrative public hearing for the proposal was held over the course of three days (July 29-31, 2015). The proposed regulations were submitted to the Office of the Attorney General in October 2015 for legal review and approval. In January 2016, DEH staff met with Attorney General Elizabeth Barrett-Anderson and her staff (AAG Jessica Toft), and representatives from Senator Tina Muna Barnes’ office, to discuss a collaborative effort between the respective offices to review the draft regulations to ensure they complied with the Act and were legally sound. Staff from the three respective offices met weekly to review the draft regulations for compliance and agreement with the statute. After months of work, on 4/28/16, the Attorney General Elizabeth Barrett-Anderson wrote a letter to DPHSS stating that the OAG completed its review of the draft regulations.

On 5/10/16, the draft regulations were transmitted to the 33<sup>rd</sup> Guam Legislature for review and approval. With 90 days to act on the proposed regulations, Senator Dennis G. Rodriguez, Jr., Chairman of the Committee on Health, Economic Development, Homeland Security, and Senior Citizens, held a public hearing on 6/7/16. Based on public testimony from that hearing, Senator Tina Muña Barnes introduced Bill 345-33 on 6/30/16 to disapprove the proposed regulations as written. The bill, “*An Act to Disapprove the Proposed Rules and Regulations Governing ‘The Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013’*” was passed by the Legislature on 7/20/16, and lapsed into law (Public Law No. 33-184) on 8/2/16, thereby disapproving the proposed regulations.

The rejection of the draft *Rules and Regulations Governing Joaquin (KC) Concepcion II Compassionate Cannabis Use Act of 2013* also affected the proposed controlled substances registration rules that were still under the review of the Office of the Attorney General. Because the medical marijuana regulations were a subset of the controlled substances

## ACCOMPLISHMENTS

registration rules, and it also contained the registration requirements for controlled substance distributors and manufacturers of medical marijuana cultivators and dispensaries.

### *Sanitary Permit*

Comments from the Attorney General's Office on the proposed *Rules and Regulations Governing the Issuance of Sanitary Permits* were received via email on October 22, 2015; its revision was returned the same day. A memo from the Attorney General's Office approving the proposed regulations as to form was received by the Department on December 31, 2015.

The draft regulations were transmitted to Governor's Office on January 11, 2016, and then to the Legislature on February 3, 2016. An informational hearing on the proposed changes to the Sanitary Permit rules and regulations was held at the Legislature's Public Hearing Room on March 1, 2016. At this meeting, Planner IV C. Naval and Chief EPHO T. Nadeau gave a short PowerPoint presentation on the changes, and answered questions from several people attending. Many from the public objected to the proposed fee increase.

On March 8, 2016, Mr. Nadeau and Ms. Naval met with staff of Senator Rodriguez to discuss the possibility of the Senator revising the proposed regulations and submitting it as a bill. DEH sent information on staffing and funding availability of the Sanitary Inspection Revolving Fund (SIRF) to the Senator's staff on March 11, 2016 with the possibility of using the SIRF fund to sustain the hiring several more EPHOs to conduct inspections, and thus, delaying the increase to the Sanitary Permit fee. On March 21, 2016, Mr. Nadeau and Ms. Naval met with members of the Guam Hotel and Restaurant Association and discussed the proposed fee increase, with GHRA suggesting a more graduated increase, or penalties assessed for re-inspections of facilities.

After further discussions with Senator Rodriguez's staff, it was decided to have the draft proposed regulations withdrawn by DPHSS (via the Governor) and allow Senator Rodriguez to reintroduce these regulations, but as a legislative bill, at a later date. On April 29, 2016, the Governor transmitted a letter to the Legislature requesting to withdraw the regulations. Information on the staffing needed to conduct inspections and the associated costs were provided to the Senator's staff in July of 2016. DEH will seek to transmit the revised, proposed regulations to Senator Rodriguez in FY 2017.

### *Independent Contractor for Temporary Workforce Housing*

The draft proposed *Rules and Regulations Governing the Contracting of an Independent Environmental Health Inspection Company to Conduct the Inspections of Temporary Workforce Housing* were transmitted to the Attorney General's Office for review on November 5, 2016. A memo approving the regulations as to form was received by DPHSS on January 15, 2016. The draft proposed regulations were transmitted to the Governor's Office on March 19, 2016, and re-transmitted on May 2, 2016 after it was learned that the document had been misplaced. The proposed regulations were transmitted by the Governor's Office to the Legislature on May 6, 2016. A roundtable discussion of the proposed regulations was held at the Legislature on May 17, 2016. The proposal lapsed into effect on August 4, 2016.

### *School Building Sanitation*

The draft proposed *Rules and Regulations Pertaining to School Sanitation* were revised several times during the fiscal year. Language on waivers for existing facilities and inspections and grading were inserted to the proposal. The Public Health Reasoning document was completed and an economic impact survey was conducted. The results of the

## ACCOMPLISHMENTS

survey were presented to the staff of DEH on August 31, 2016. Because the estimated impact to the schools to comply with the proposed changes to the draft regulations was less than \$500,000, no economic impact study was required, pursuant to the Administrative Adjudication Law. The final revisions to the proposed regulations were made in late September of 2016; an Administrative Public Hearing was scheduled for FY 2017.

### *Public Playgrounds*

The draft proposed *Rules and Regulations Governing Public Playgrounds* was revised during FY 2016, and an economic impact survey was sent to child care establishments in June 2016. Second round of surveys and follow-up calls occurred in July 2016 to expand the survey to include elementary schools. Survey results were presented to DEH personnel on August 31, 2016, which was followed up with another on September 16. Because the estimated impact to comply with the proposed regulations was over \$500,000, a formal Economic Impact Statement will be prepared in FY 2017.

### *Elderly Day Care*

DEH initiated actions to revise the existing regulations for *Day Care Centers for the Elderly and Disabled Adults* (“Adult Day Care”) in FY 2016.

### *Cosmetology*

DEH began the drafting of the proposed *Rules and Regulations Pertaining to Barber and Beauty Shops, Schools; and the Practice of Barbering and Cosmetology* in FY 2016.

### Policies and Procedures

Eight directives were issued that formulated policies and procedures to improve the operations of the Division during Fiscal Year 2016. These directives included:

- Policies related to field operations (clarification on toilet requirements for some cosmetology establishments; authorization of non-DEH Government of Guam staff to borrow a DEH vehicle; and the requirements for Temporary Health Certificates);
- Policies related to office operations (use of revised checklist summary for adopting rules and regulations; assisting PCS when needed; keying in inspection reports to the online searchable inspection database; and requirement for DEH to always have a designated Fire Marshal); and
- Policies related to DEH program assignments.

## TRENDS

### Budget Appropriation

The General Fund appropriations to the Division of Environmental Health from FY 2004 to FY 2016 reflect the unpredictable funding of the Division (**Figure 12**). With every increase in appropriation, there was a decrease or minimal increase in funding the succeeding year, regardless of the staffing level. Funding for FY 2010 (\$501,436) was one of the lowest appropriation amounts to DEH, while FY 2016 was the highest amount in the past 13 years. 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. A similar pattern of appropriation was seen in the Environmental Health (EH) Fund as \$322,000 was appropriated in FY 2004 and FY 2005 before decreasing to nearly \$234,000 in FY 2006. FY 2016 EH Fund appropriations topped \$1 million (**Figure 13**). Although expenditures from GF decreased steadily from FY 2004 to FY 2007, they rose again in FY 2008 and FY 2009; in FY 2013, expenditures nearly equaled appropriations. The opposite occurred for the EH Fund through FY 2009 (**Figure 14**). The differing trends in expenditures showed the Division's increased reliance on the EH Fund for its operation. In FY 2008 through FY 2014, the appropriation amount from EH Fund surpassed that of the GF. In FY 2009, due to transfers of funds out of the GF to other divisions of DPHSS, the expenditures surpassed the remaining appropriation and had to be paid from carryover EHF funds. In FY 2015, EH Fund expenditures dropped, partly due to late recruitment (four positions were filled in the third and fourth quarter of the Fiscal Year), and partly due to only having 84% of appropriated funds released to the Division.

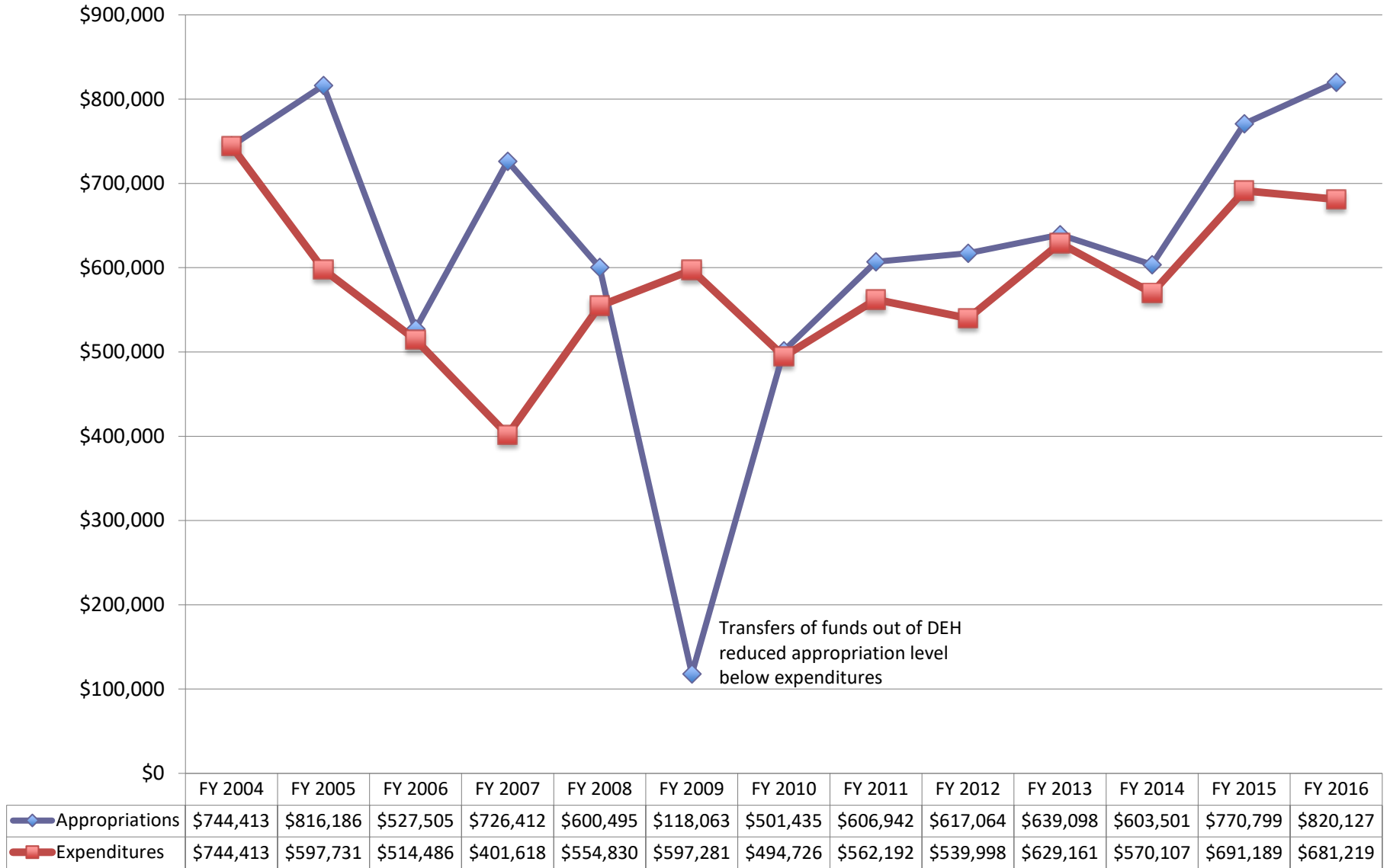
**Figure 15** shows the revenues generated, appropriations, and expenditures of the Environmental Health Fund. The figure shows the gap between revenues and appropriations; that gap is most clearly evident in FY2006, when the EHF generated over \$400,000 more than what was appropriated. Due to the recurring restrictions placed on the EHF, the full appropriated amounts were not always available to the Division. For the first time, in FY2011, appropriations exceeded revenues for that year, drawing upon revenues from past years to fund the Division's operations; this occurred again in FY 2016. Due to changes in the Sanitary Permit fees that were implemented in FY 2011 (**Figure 16**), revenues increased in FY 2012 through FY 2014. In FY 2014, revenues exceeded \$1 million for the first time. Sanitary Permit fees make up the majority of the revenue the Division earns.

### 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 2016 reflected the priorities of the Division (**Figure 17**). The sudden and continued increase in the number of inspections of institutional facilities during the period was directly attributed to the Division's commitment to inspect school buildings and childcare facilities. Facilities in other categories were inspected significantly fewer times every year. The loss of three staff from BIE was directly reflected in the steep decreases in inspections conducted in FY 2007, which continued through FY 2009. Thereafter, a trend of an increasing number of inspections conducted continued until FY 2014, when the Division's focus was on preparing the food industry for the implementation of the newly-adopted Guam Food Code. Food manufacturers saw a great increase in inspections during FY 2012. Overall inspection numbers began to increase again in FY2015 and FY 2016 when new staff completed their training and were able to conduct independent inspections, especially of temporary events during FestPac.

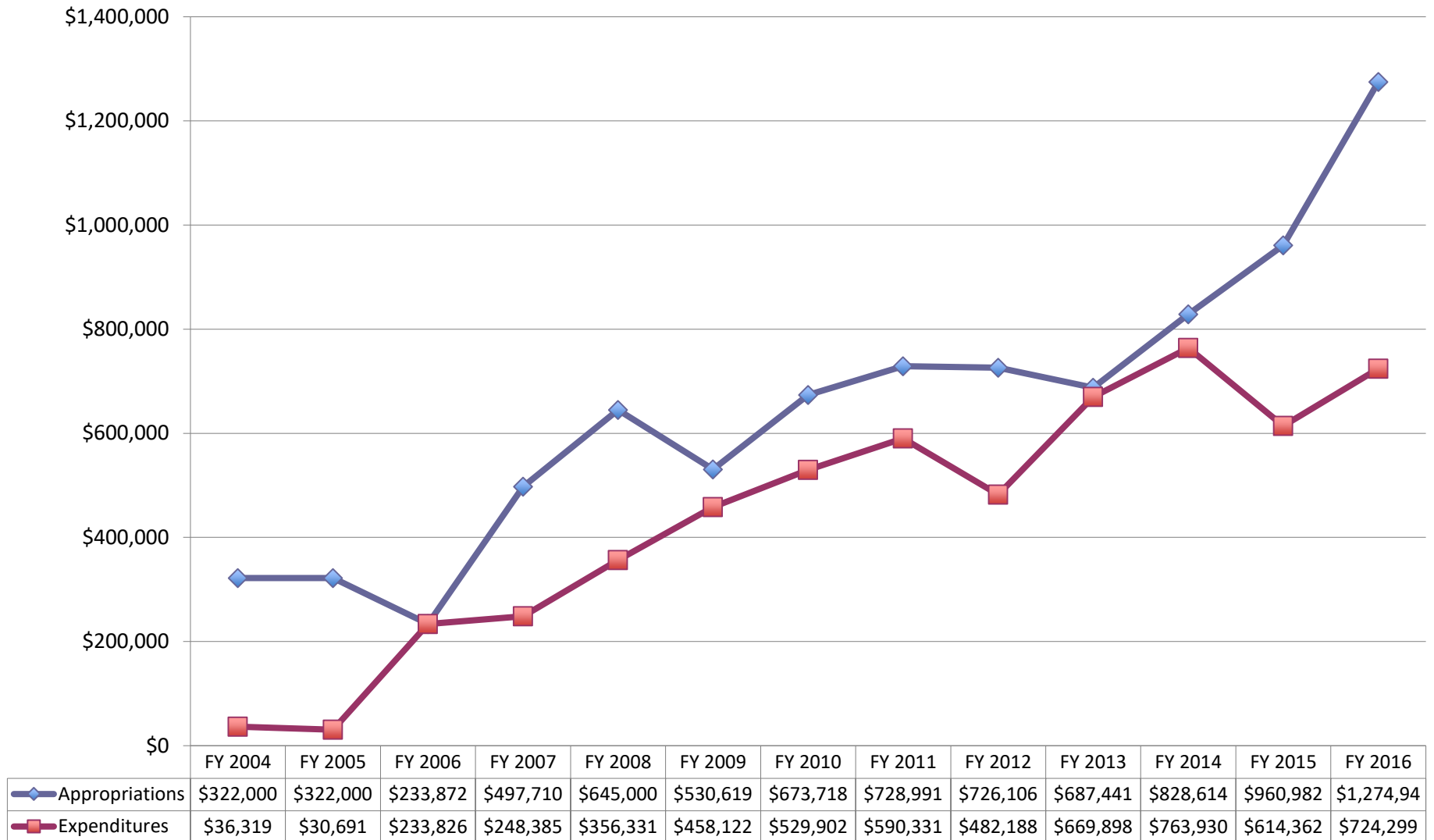


**APPROPRIATIONS AND EXPENDITURES, GENERAL FUND:  
FY 2004 - FY 2016**



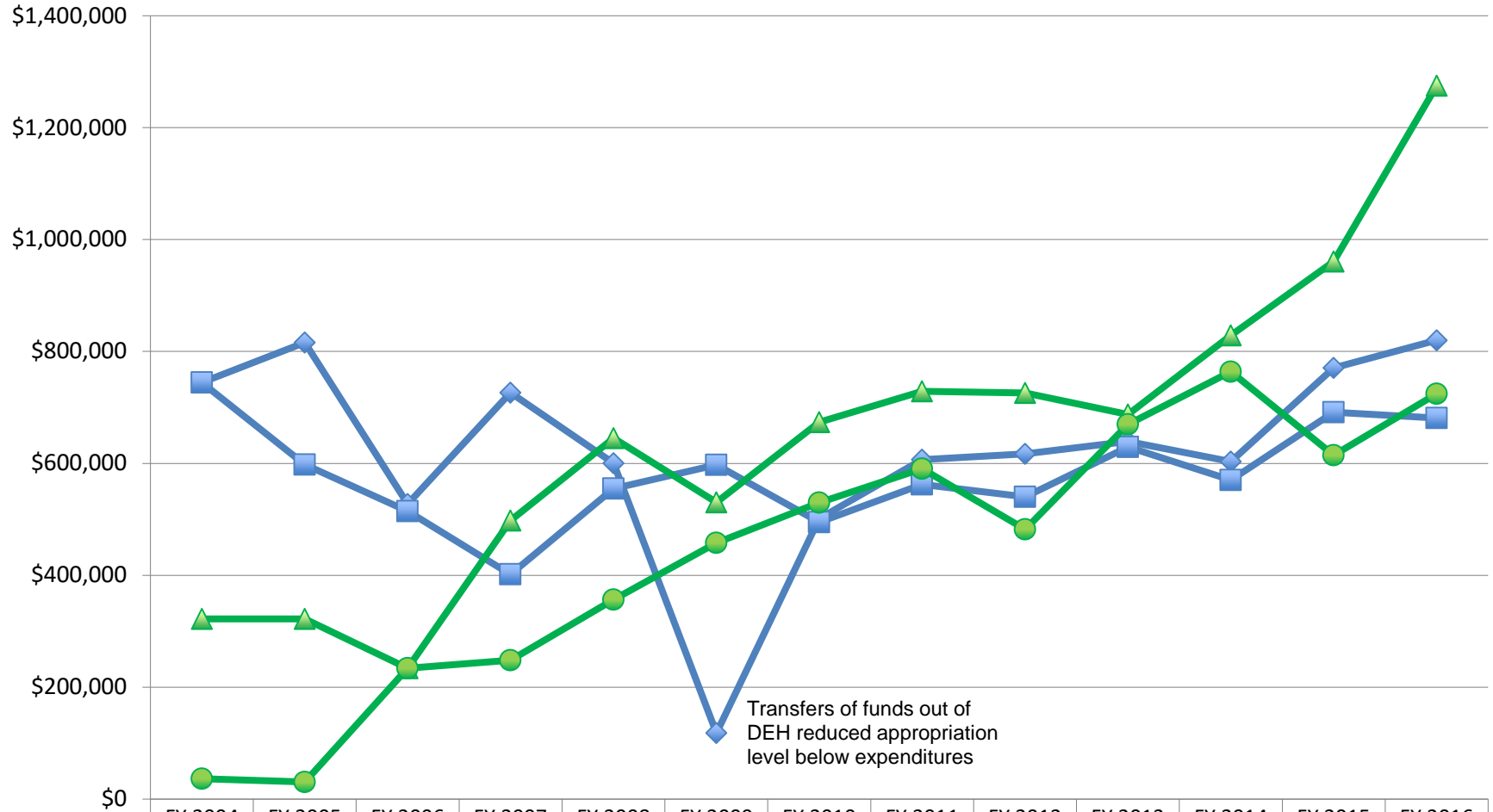
**Figure 12. General Fund appropriations and expenditures of the Division of Environmental Health, FY 2004 – FY 2016.**

**APPROPRIATIONS AND EXPENDITURES, ENVIRONMENTAL HEALTH FUND:  
FY 2004 - FY 2016**



**Figure 13. Environmental Health Fund appropriations and expenditures of the Division of Environmental Health, FY 2004 – FY 2016.**

**APPROPRIATIONS AND EXPENDITURES BY FUNDING SOURCE:  
FY 2004 - FY 2016**



	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016
GF Appropriations	\$744,413	\$816,186	\$527,505	\$726,412	\$600,495	\$118,063	\$501,435	\$606,942	\$617,064	\$639,098	\$603,501	\$770,799	\$820,127
GF Expenditures	\$744,413	\$597,731	\$514,486	\$401,618	\$554,830	\$597,281	\$494,726	\$562,192	\$539,998	\$629,161	\$570,107	\$691,189	\$681,219
EHF Appropriations	\$322,000	\$322,000	\$233,872	\$497,710	\$645,000	\$530,619	\$673,718	\$728,991	\$726,106	\$687,441	\$828,614	\$960,982	\$1,274,94
EHF Expenditures	\$36,319	\$30,691	\$233,826	\$248,385	\$356,331	\$458,122	\$529,902	\$590,331	\$482,188	\$669,898	\$763,930	\$614,362	\$724,299

**Figure 14. Appropriations and expenditures from all appropriated funding sources of the Division of Environmental Health, FY 2004 – FY 2016.**

# TRENDS

## REVENUES, APPROPRIATIONS, AND EXPENDITURES, ENVIRONMENTAL HEALTH FUND: FY 2004 - FY 2016

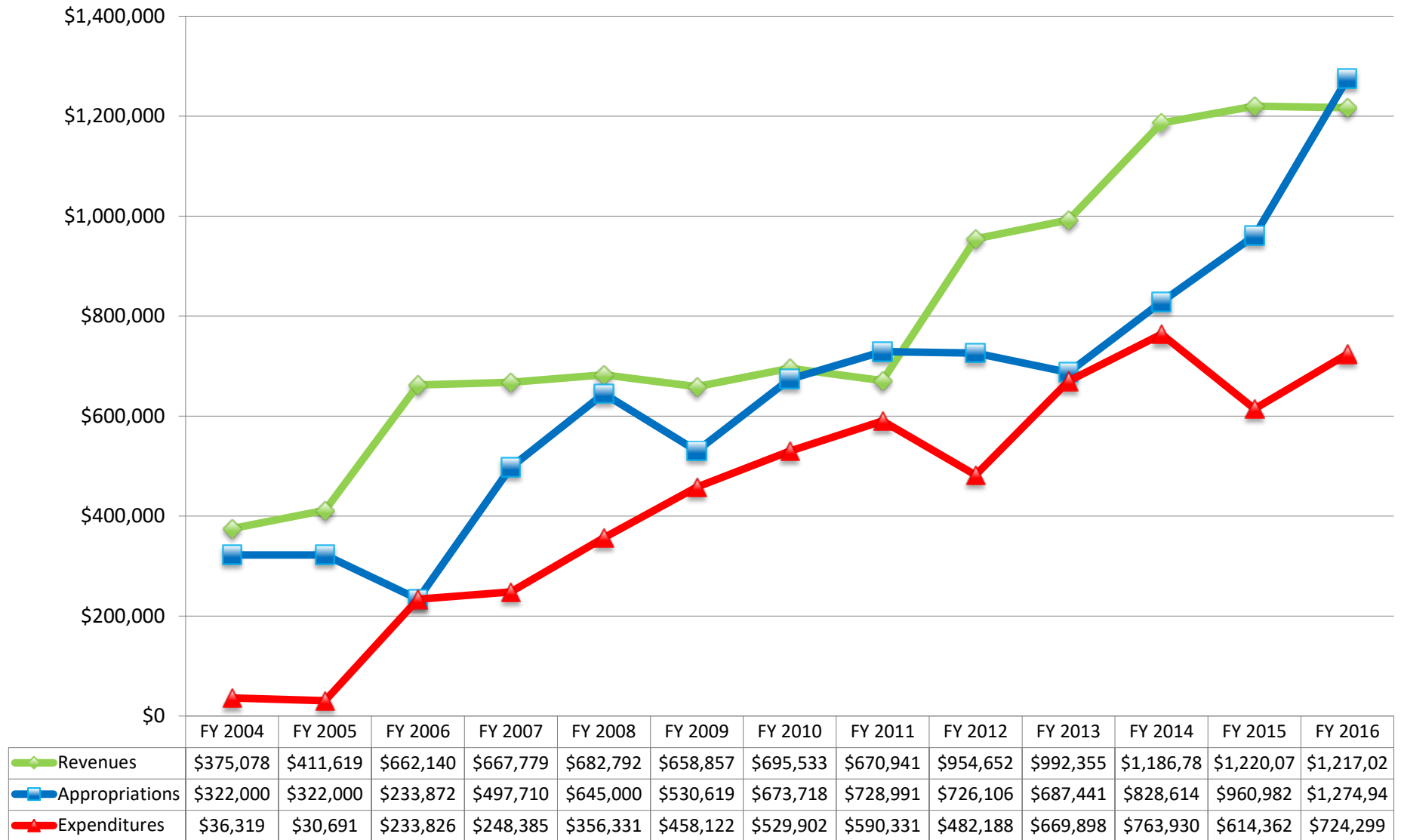
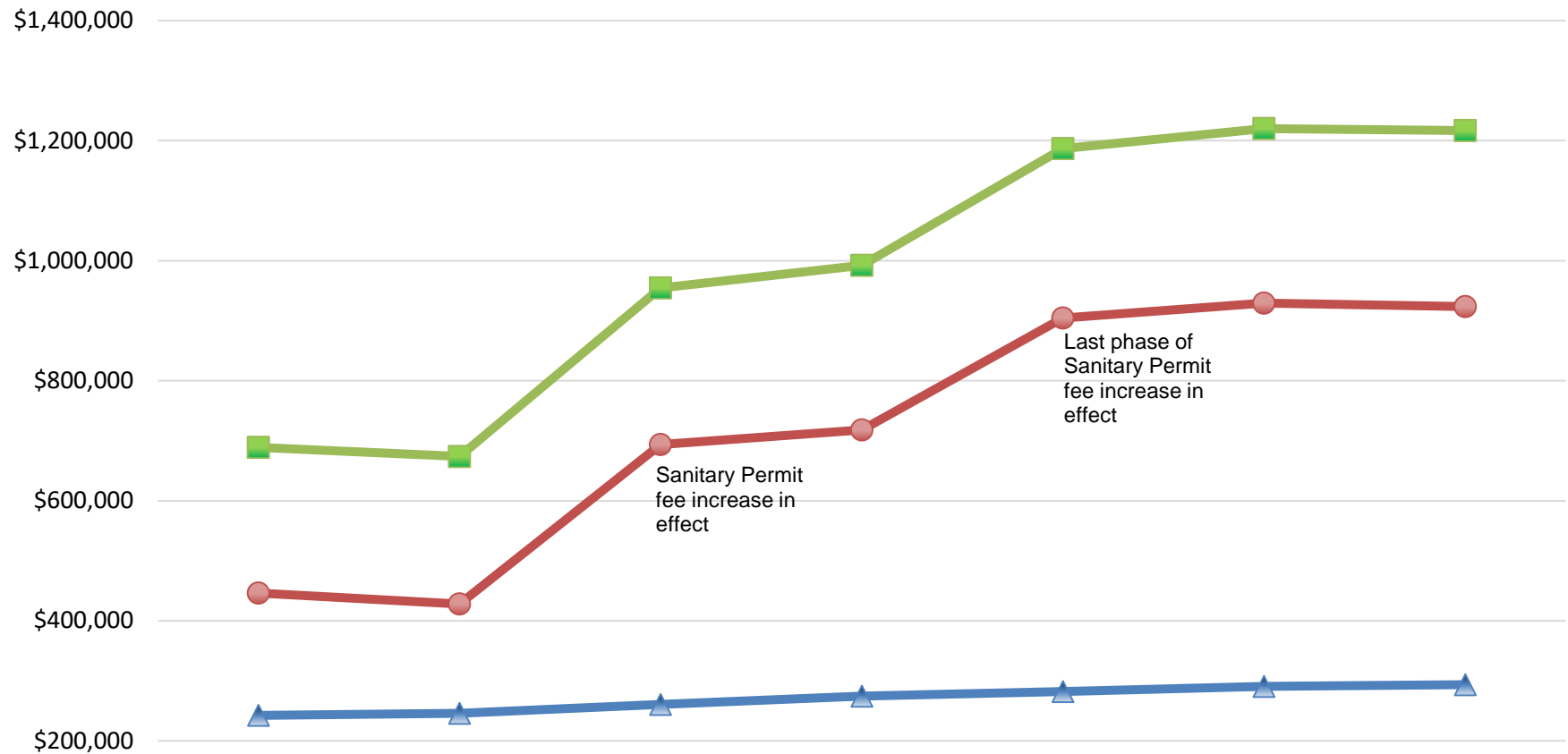


Figure 15. Environmental Health Fund revenues, appropriations, and expenditures of the Division of Environmental Health, FY 2004 – FY 2016.

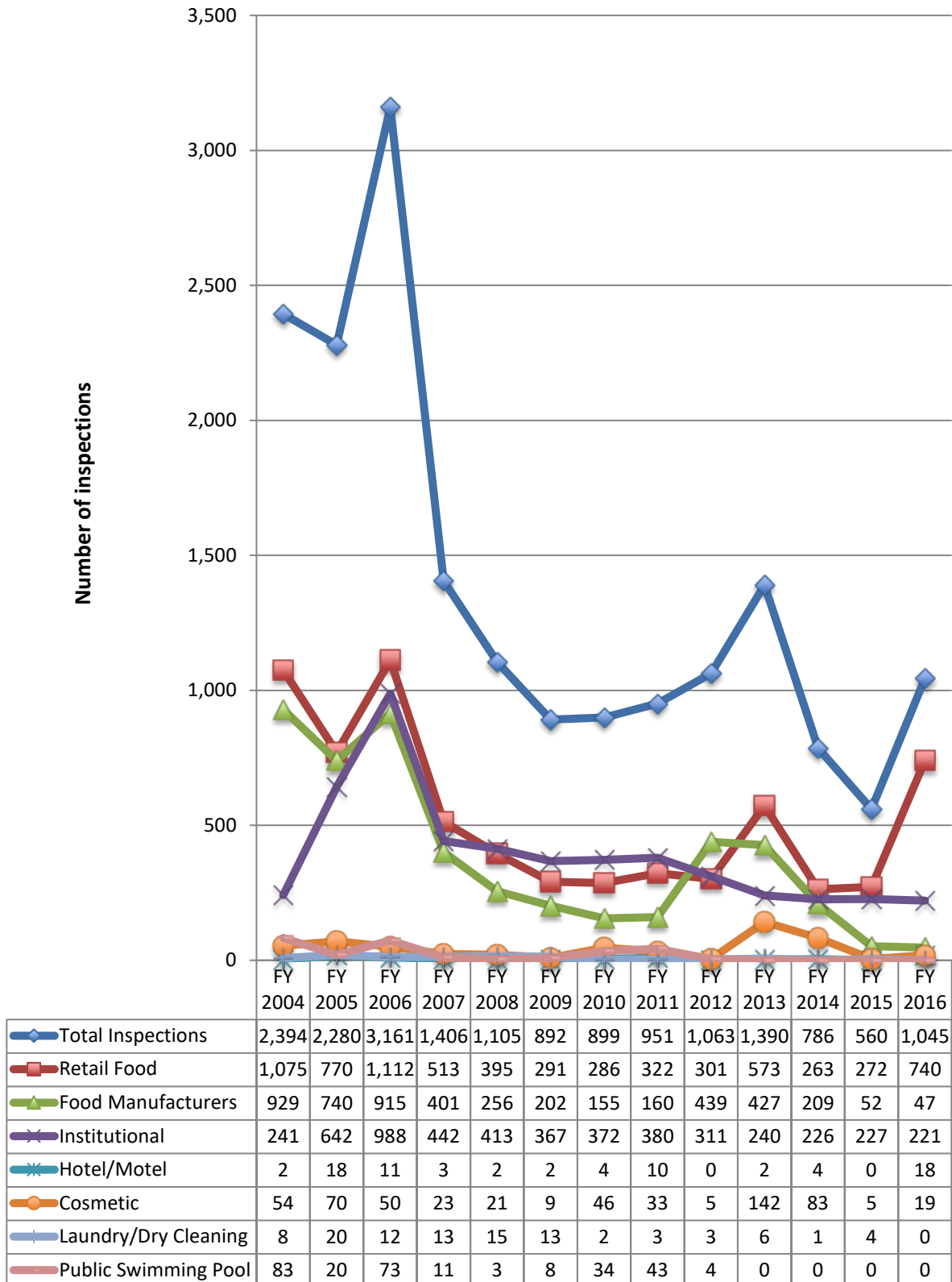
**EHF REVENUE BY SOURCE:  
FY 2010 - FY 2016**



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

**Figure 16. Revenues by Source for the Environmental Health Fund of the Division of Environmental Health: FY 2010 – FY 2016.**

**INSPECTIONS BY CATEGORY, ALL TYPES:  
FY 2004 - FY 2016**



**Figure 17. Inspections of regulated establishments by the Division of Environmental Health, FY 2004 – FY 2016.**

## TRENDS

### Processing Center Section

In the past 13 years, DEH issued a yearly average of 3,119 Sanitary Permits (**Figure 18**); 31,689 Health Certificates (**Figure 19**); and 320 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-operation inspections, which added additional funds, but not to the number of permits. Similar anomalies were observed for Health Certificates and CSRs. Less money was collected in FY 2005 from the issuance of Health Certificates when compared to the previous year even though more certificates were issued, and more money was collected in FY 2004 for CSR even though fewer registrations were released that year compared to the following two years. There was a loss of data in FY 2004; if this had not happened, the count of certificates issued may have been closer to that of FY 2005. 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; this 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, a 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 CSR 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).

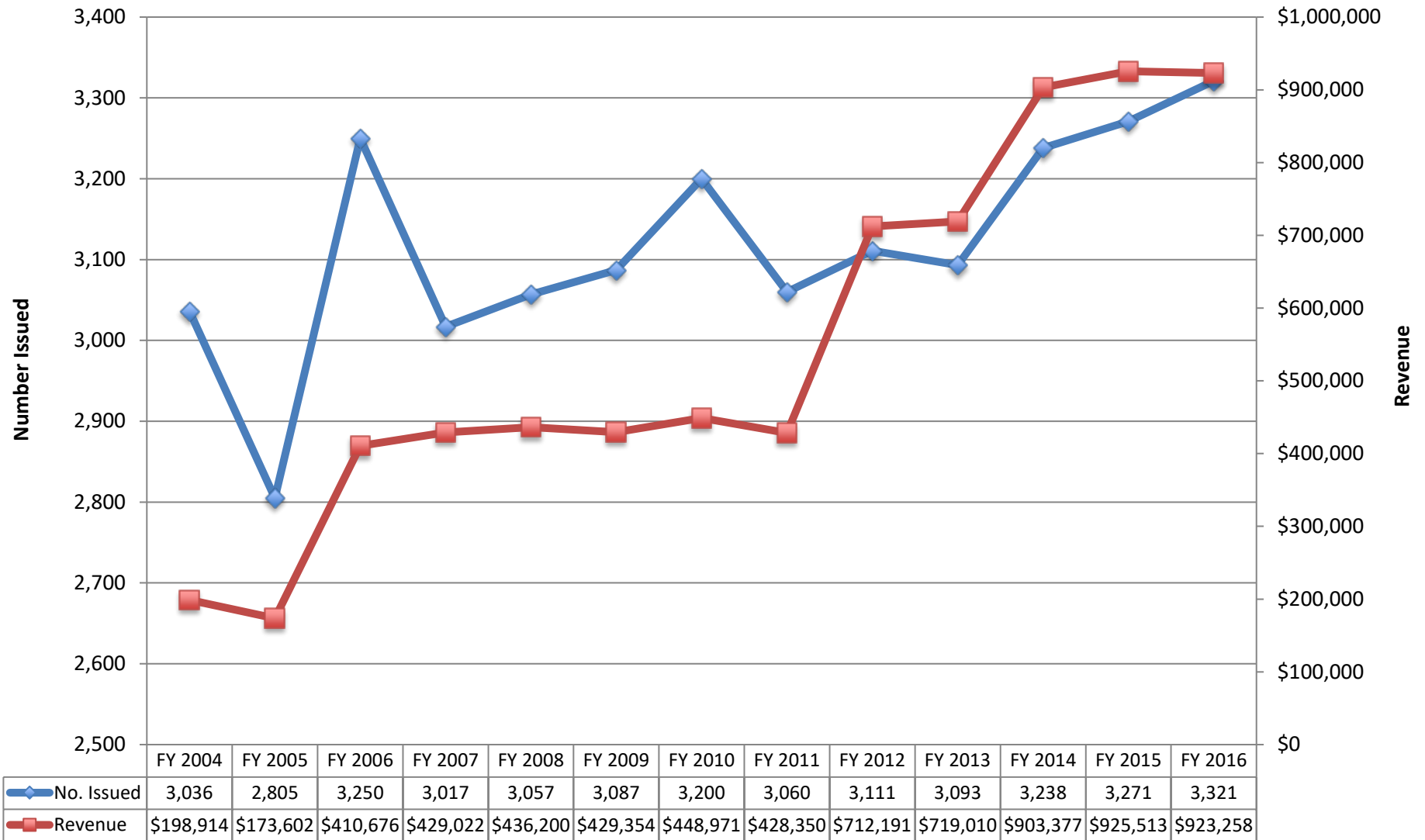
### Plans and Specifications

The number of pre-operation inspections remained steady between 540 and 630 from FY 2004 to FY 2006, and then increased to 767 in FY 2007 before dropping to 515 in FY 2009. It increased modestly, between FY 2010 and FY 2014, but declined again in FY 2015 and FY 2016. Business clearances decreased every year by about 100 during the same period, then peaked in FY 2009 and FY 2010, but decreased annually until FY 2015, when they began to climb again.

Plan review numbers changed very little from year to year, averaging 40 reviews a year, until FY 2008, when they jumped to 407 because of the addition of floor plan reviews to the data collected, and continued that increase in FY 2009, FY 2010, and in FY 2013. The most dramatic change in numbers was for consultations from FY 2004 to FY 2005, which increased from 312 to 1,114 to reflect a \*350% increase. The following year, the number of consultations remained at just over 1,000 and then increased another 85% between FY 2006 and FY 2007, before falling 37% in FY 2008, 17% in FY 2009, and 11% in FY 2013. The initial jump 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 inquiries, which began being tracked in FY 2009, more than doubled in FY 2010, then dropped slightly in FY 2011 through FY 2013, then dramatically 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. The accomplishments are presented in **Figure 21**.

\*Further internal review of the sudden increase in consultation numbers suggests that the dramatic surge did not actually occur, but instead, it reflects inaccurate recordkeeping in FY 2004.

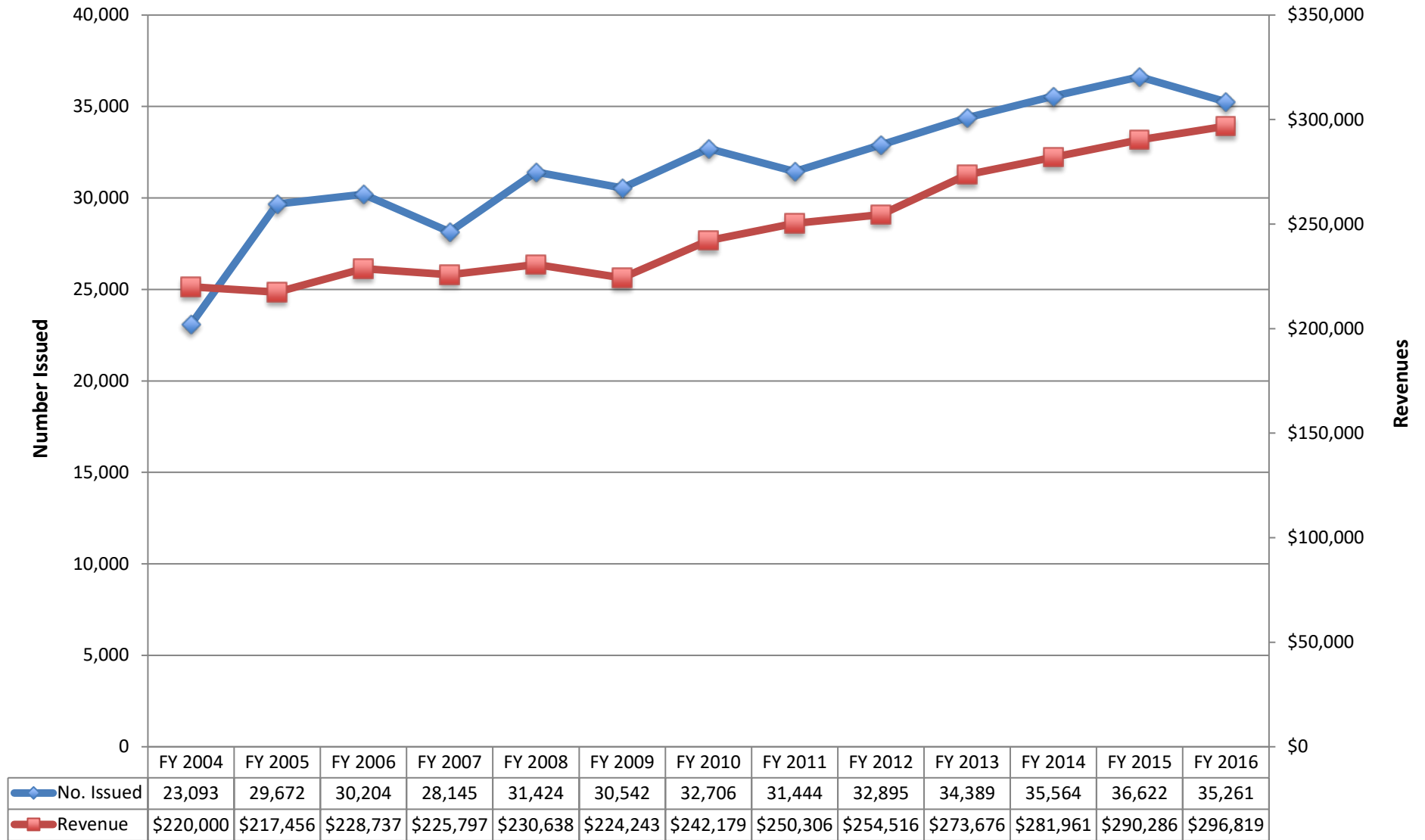
**SANITARY PERMITS ISSUED:  
FY 2004 - FY 2016**



**Figure 18. Sanitary Permits issued and revenues generated by the Division of Environmental Health, FY 2004 – FY 2016.**

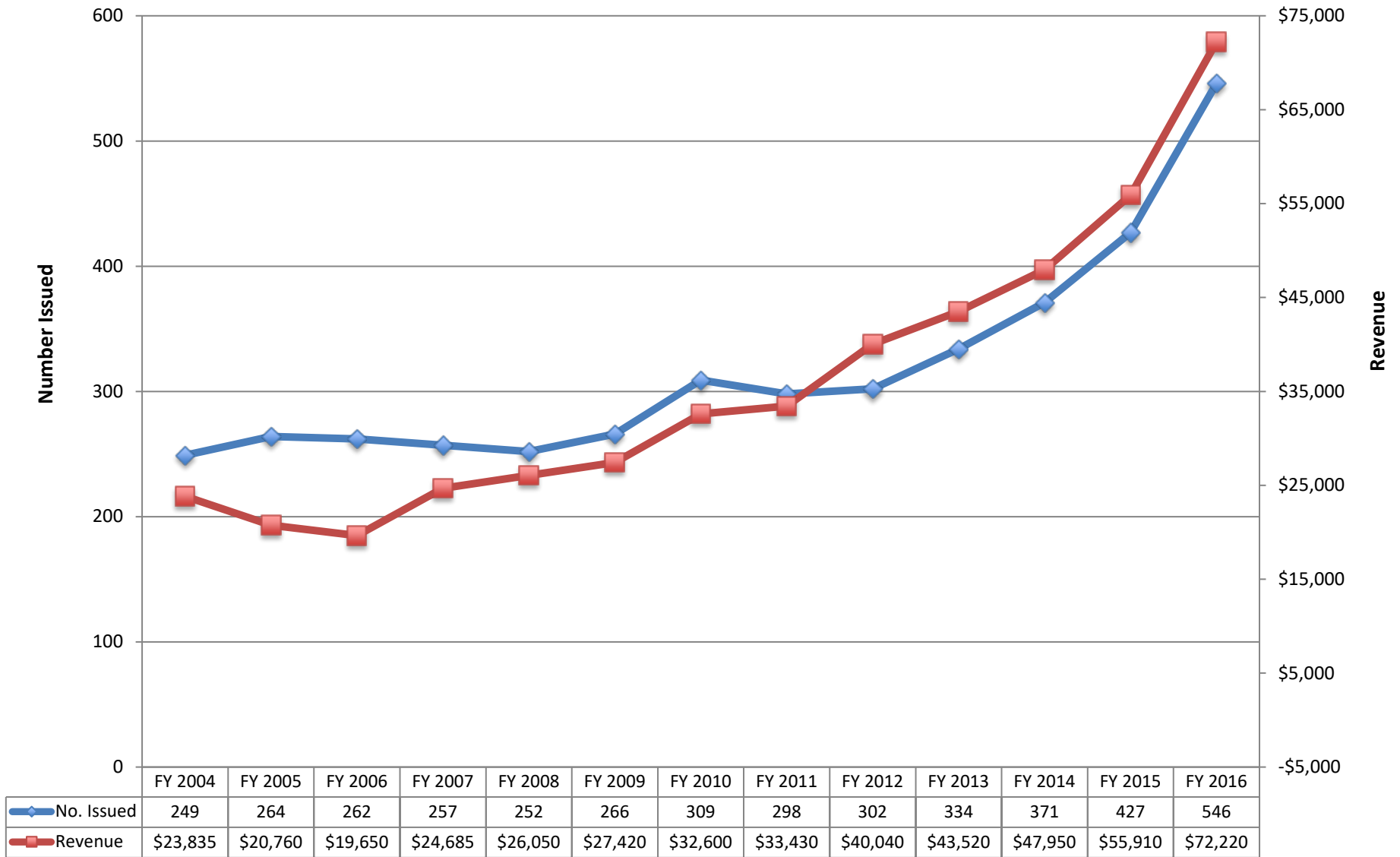


**HEALTH CERTIFICATES ISSUED:  
FY 2004 - FY 2016**



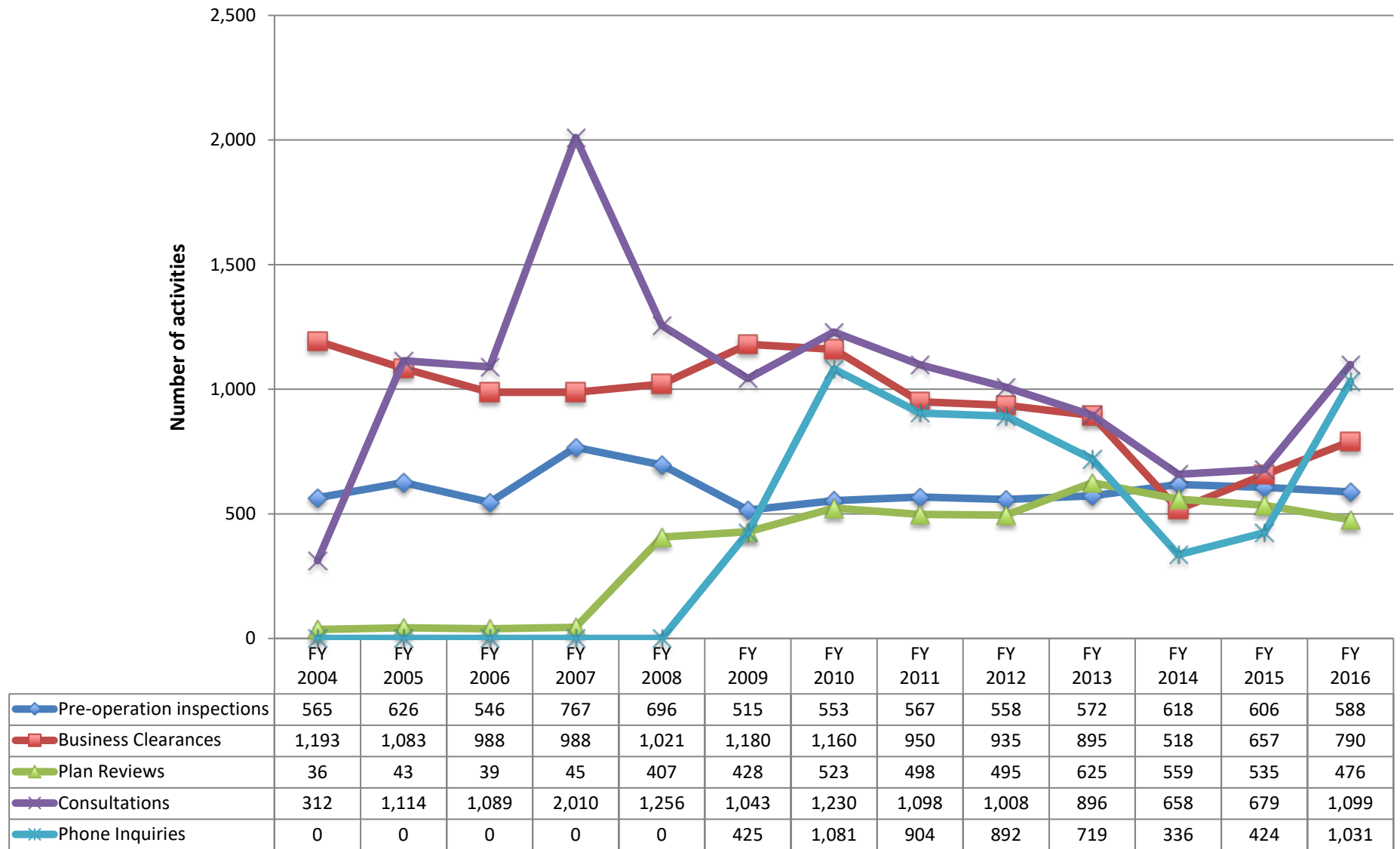
**Figure 19. Health Certificates issued and revenues generated by the Division of Environmental Health, FY 2004 – FY 2016.**

**CONTROLLED SUBSTANCES REGISTRATIONS:  
FY 2004 - FY 2016**



**Figure 20. Controlled Substances Registrations issued and revenues generated by the Division of Environmental Health, FY 2004 – FY 2016.**

**ONE STOP CENTER ACTIVITIES:  
FY 2004 - FY 2016**



**Figure 21. One-Stop Center activities of the Division of Environmental Health, FY 2004 – FY 2016.**

## TRENDS

### Consumer Commodity Detentions

With the exception of food, the detentions of all consumer commodities decreased every successive year from FY 2004 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. Although the number of food detentions did decrease from FY 2004 to FY 2005, it increased in FY 2006, only to fall again in FY 2007 (**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, medical devices, and hazardous substances all rose in FY 2009, and with the exception of hazardous substances, again in FY 2010 and 2011. All detentions except food and hazardous substances fell in FY 2012, and all detentions decreased in FY 2013 through FY 2016, with the exception of drugs in FY 2014 and hazardous substances in FY 2015. With the policy change regarding bottled water that occurred in April of 2013 (DEH no longer requested importers to have their samples tested for coliform), it is very likely that food detention numbers will continue to fall in the future.

### Sanitation Inspections

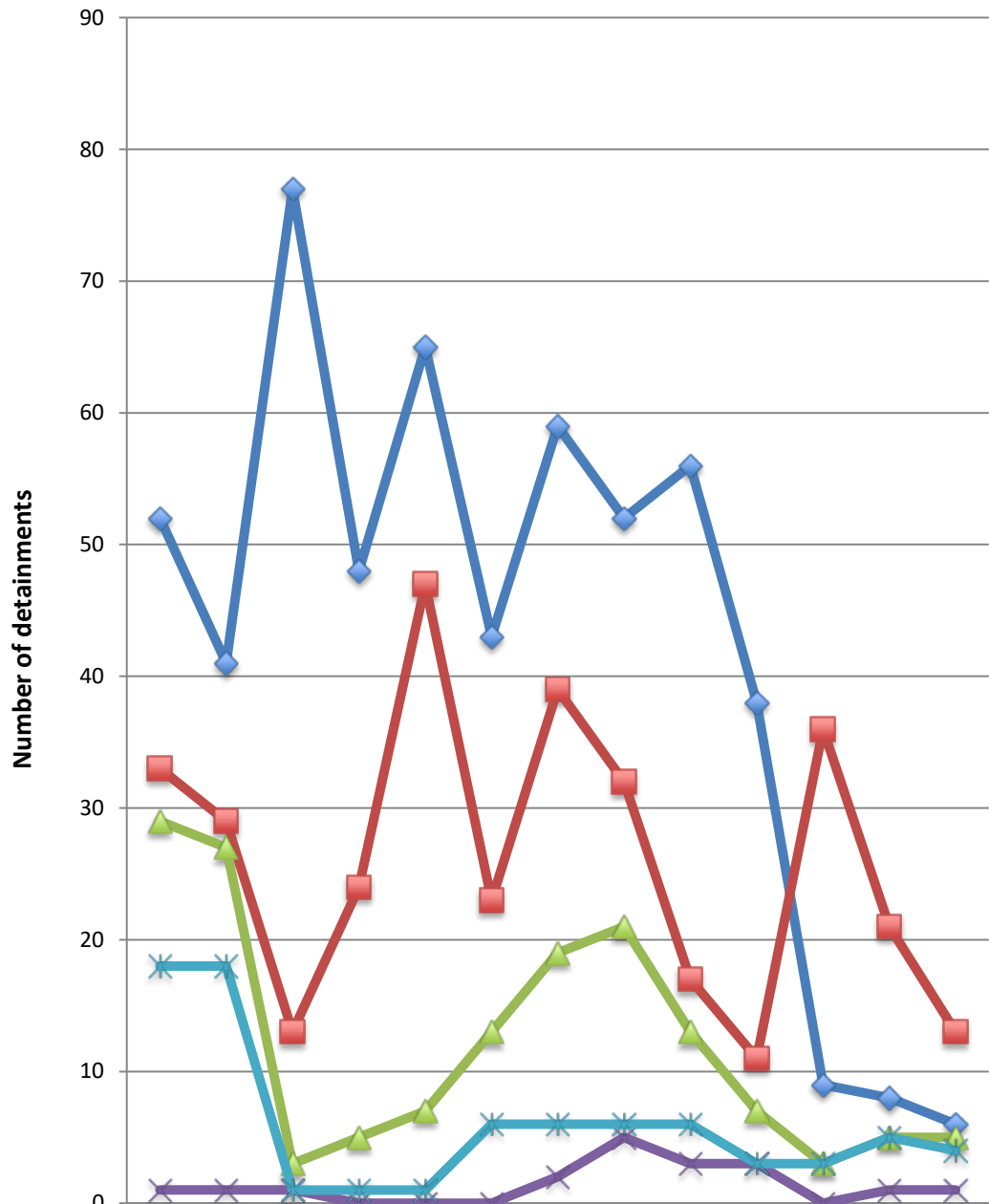
In the six years from FY 2004 to FY 2009, DEH had an average of 3.8 full-time equivalent field personnel (**Figure 23**). Over that period, DEH averaged 1,873 sanitation inspections a year with the highest number occurring in FY 2006 with 3,161 inspections. Although DEH was able to complete over 2,000 inspections a year from FY 2004 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 availability of trained personnel to conduct sanitation inspections and the transfer of veteran staff to other programs of the Division. These data were reviewed in early 2009, and the number of field FTE revised to the current numbers.

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 new position series implemented in October of 2012, more FTEs 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 prior to the implementation of the Guam Food Code, resulted in fewer field FTEs 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. 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.

### Plans and Specifications Inspections

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

**DETAINMENTS BY TYPE:  
FY 2004 - FY 2016**

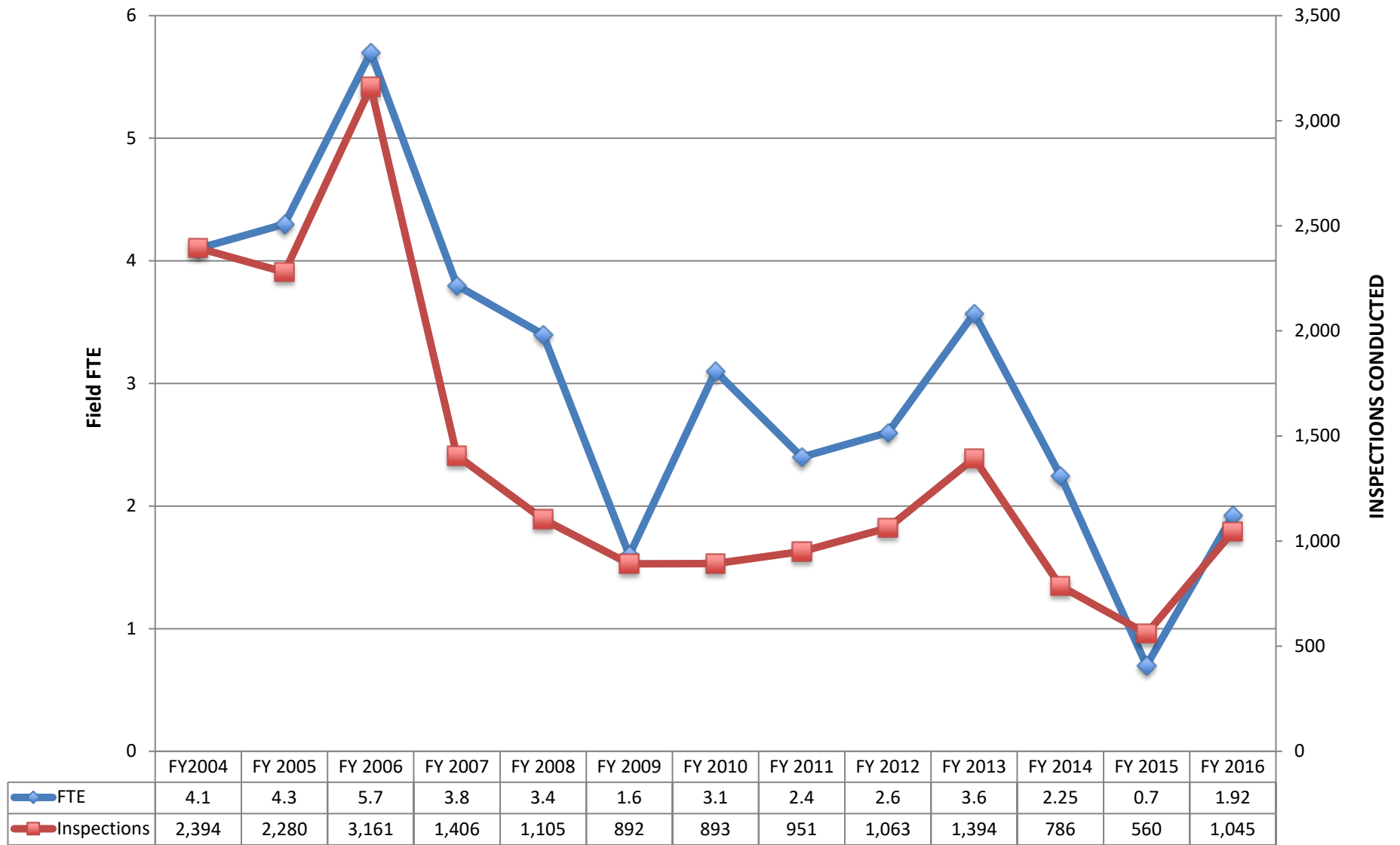


	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015*	FY 2016*
Food	52	41	77	48	65	43	59	52	56	38	9	8	6
Drug	33	29	13	24	47	23	39	32	17	11	36	21	13
Cosmetics	29	27	3	5	7	13	19	21	13	7	3	5	5
Medical Devices	1	1	1	0	0	0	2	5	3	3	0	1	1
Hazardous Substances	18	18	1	1	1	6	6	6	6	3	3	5	4

\*Multi-category detainments shown in all categories they could be counted in.

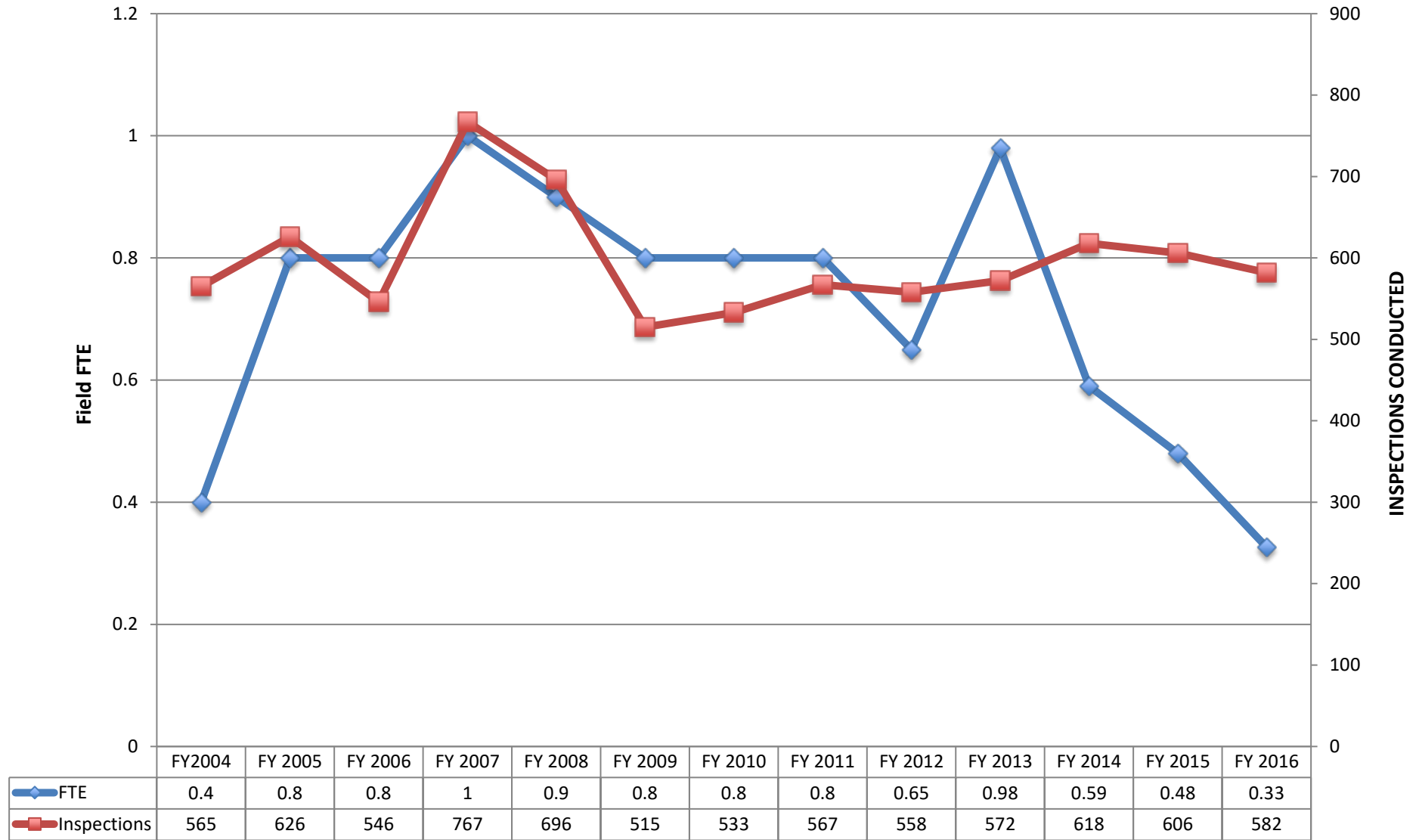
**Figure 22. Detainments of consumer commodities by type by the Division of Environmental Health, FY 2004 – FY 2016.**

**INSPECTIONS BY FIELD FTE:  
FY 2004 - FY 2016**



**Figure 23. Inspections by field Full-Time Equivalents (FTE) of the Division of Environmental Health, FY 2004 – FY 2016.**

**INSPECTIONS BY FIELD FTE, PLANS & SPECS:  
FY 2004 - FY 2016**



**Figure 24. Plans and Specifications inspections by field Full-Time Equivalents (FTE) of the Division of Environmental Health, FY 2004 – FY 2016**

## TRENDS

With the implementation of the new EPHO position series, staff are being cross-trained to conduct pre-operation inspections, which added to the FTE available in FY 2013, though not appreciably to the number of inspections conducted. Staff absences in FY 2014 resulted in fewer field FTE, though the number of inspections conducted increased slightly. While the number of FTE available in FY 2015 decreased (nearly 19%), the number of inspections conducted fell only 2%. Field FTEs were at their lowest number in FY 2016, but the number of inspections conducted fell only 4%.

### Environmental Public Health Impact

In Fiscal Year 2013, DEH began measuring the environmental public health impact of its activities. Two measures are reported in this report for FY 2016: the questions most commonly missed on the examination that are given after the food safety training course to attendees who are seeking Health Certificates for employment at a food facility (**Figure 25**), and the violations most frequently cited, by category, during sanitation inspections of food facilities conducted by DEH (**Figures 26-27**). Though not firmly substantiated, there may be a link between these two measures.

DEH also evaluated the most commonly cited violations of childcare facilities (**Figure 28**), school buildings (**Figure 29**), therapeutic massage establishments (**Figure 30**), and beauty/barber establishments (**Figure 31**). In nearly all establishment types, lack of general maintenance and cleanliness were the violations most often observed. There were insufficient data for therapeutic massage establishments to derive any reliable conclusion. The collected data will be utilized by DEH to determine the focus of its enforcement, education, and training activities.

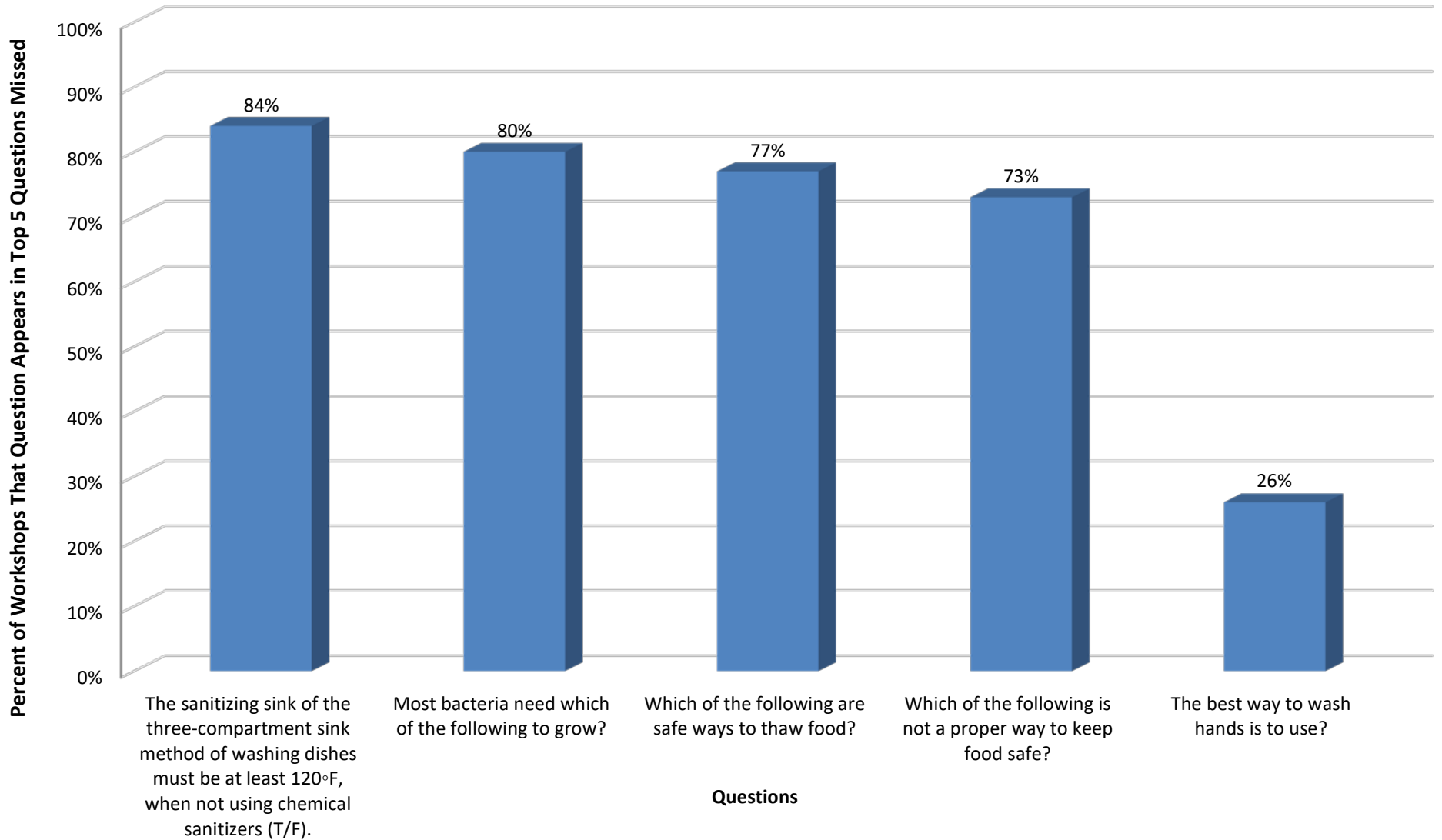
The Guam Prescription Drug Monitoring Program has been collecting prescription data from retail pharmacies on Guam since January 2013, and providing reports to pharmacists and prescribers since May of that year. Several pharmacies have uploaded prescriptions dating back to June of 2012. The numbers of 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 32**), with the exception of FY 2016 when the database server crashed and was unavailable for nearly five months. The number of prescriptions added increased only slightly in Calendar Year (CY) 2015 from CY 2014 (less than 1%), while the number of reports requested increased over 300%. It is hoped that having more physicians using the system will lead to the identification of possible drug diverters. **Figure 33** shows the top five controlled substances dispensed in FY 2012 - FY 2016. An interesting change emerged in FY 2015, and was repeated in FY 2016: hydrocodone bitartrate and acetaminophen (i.e., Vicodin) was being replaced in the top five prescribed drugs by Tramadol hydrochloride.

Hydrocodone is an opioid pain medication for moderate to severe pain. It is one of the most, if not the most, prescribed opioid painkiller in the U.S. Tramadol is a narcotic-like drug, also used for treating moderate to severe pain. Tramadol was originally considered the “safer” alternative to other opioid medications (morphine and hydrocodone), but later scheduled as a controlled drug in 2014 after mounting evidence of withdrawal symptoms.

It should be noted that the absence of a particular drug in the graph does not mean it was not prescribed that year, only that it was not prescribed in a quantity high enough to be included in the top five controlled substances dispensed.

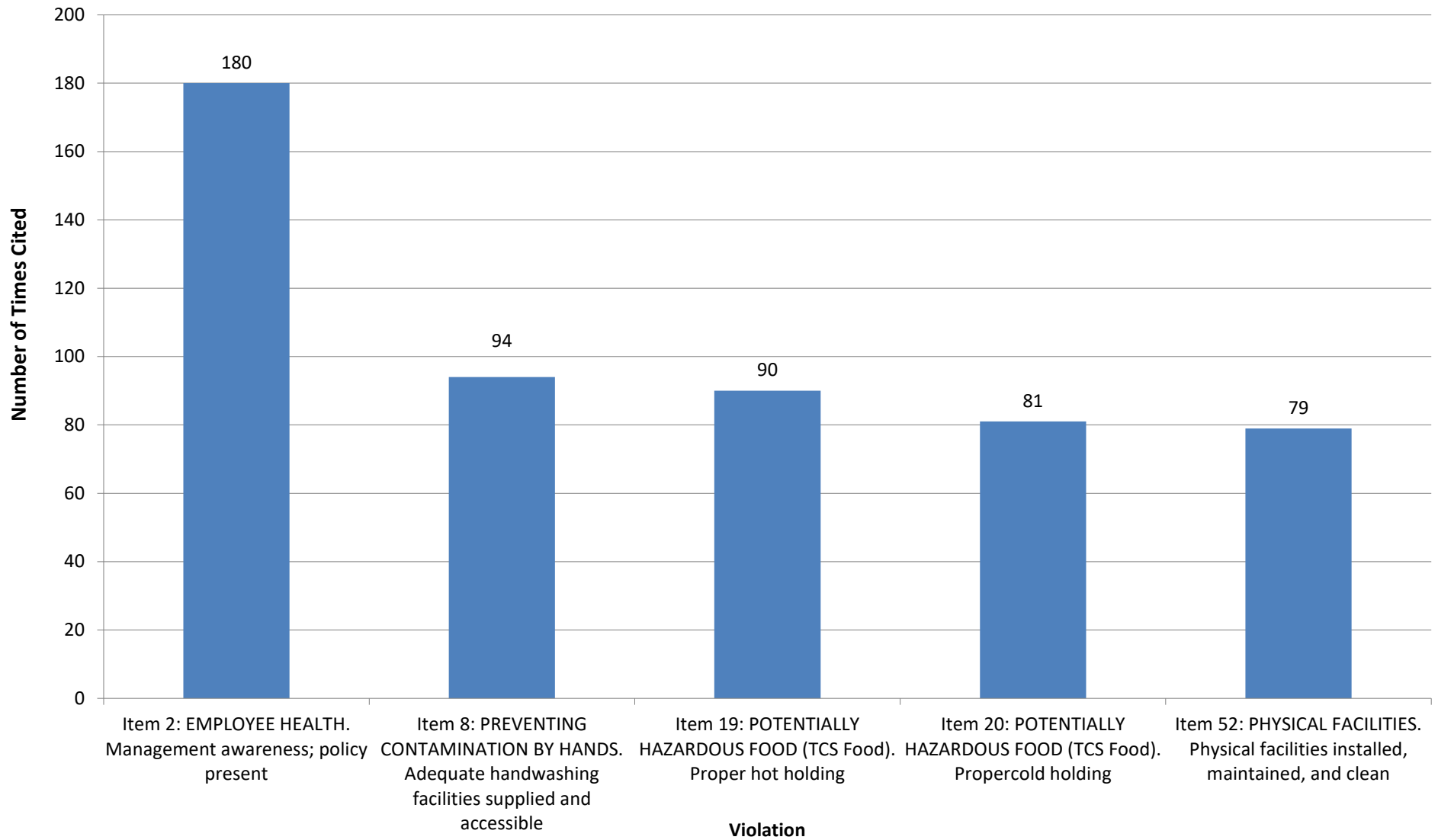


**TOP 5 QUESTIONS MISSED IN HEALTH CERTIFICATE EXAM:  
FY 2016**



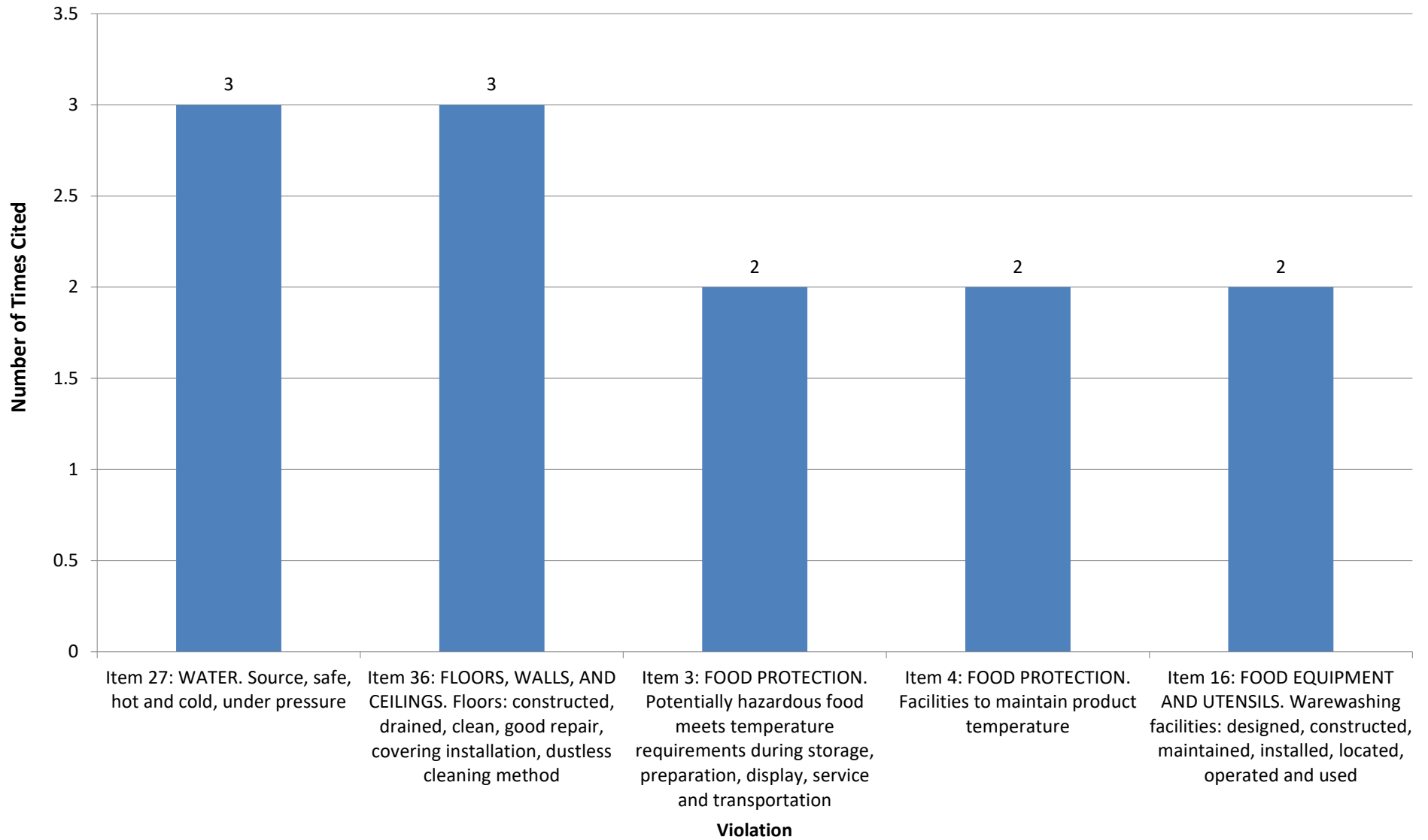
**Figure 25. Most commonly missed questions on the Health Certificate examination given by GCC, FY 2016.**

**TOP 5 CITED VIOLATIONS IN EATING & DRINKING ESTABLISHMENTS:  
FY 2016**



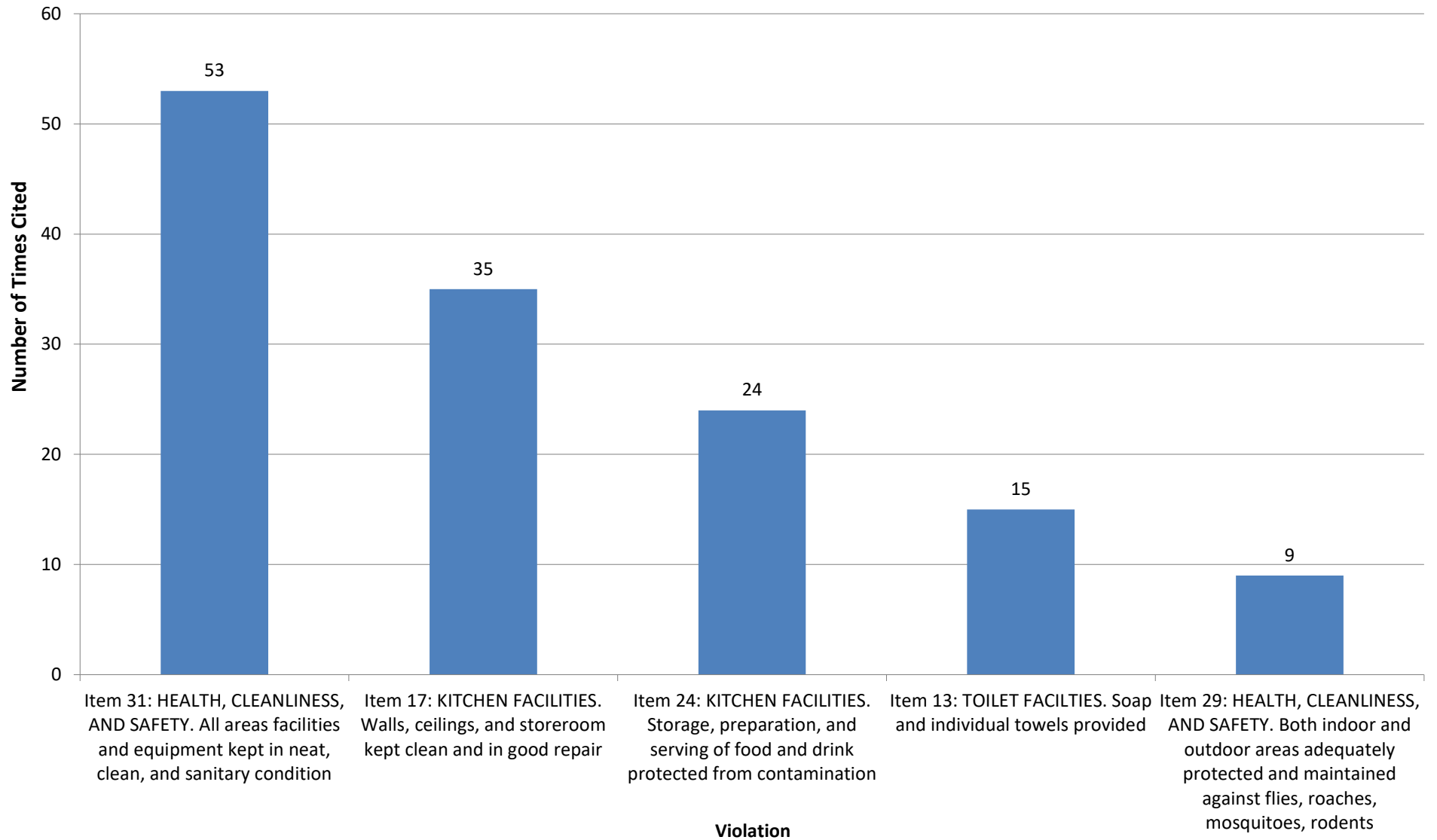
**Figure 26. Violations most frequently cited by DEH for Eating & Drinking Establishments, FY 2016.**

**TOP 5 CITED VIOLATIONS IN FOOD ESTABLISHMENTS:  
FY 2016**



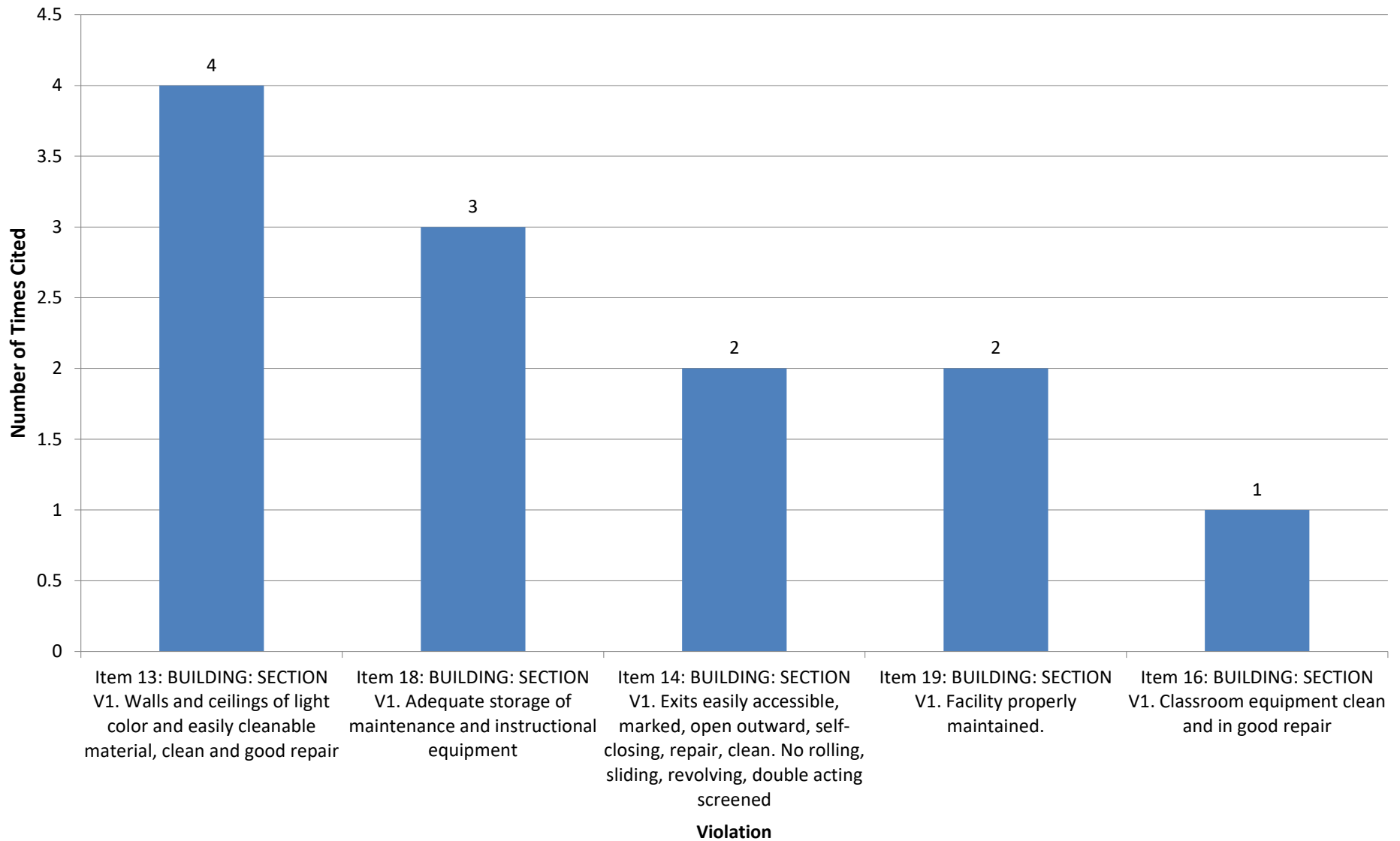
**Figure 27. Violations most frequently cited by DEH for Food Establishments, FY 2016.**

**TOP 5 CITED VIOLATIONS IN CHILD CARE FACILITIES:  
FY 2016**



**Figure 28. Violations most frequently cited by DEH for Childcare Establishments, FY 2016.**

**TOP 5 CITED VIOLATIONS IN SCHOOL BUILDINGS:  
FY 2016**



**Figure 29. Violations most frequently cited by DEH for School Buildings, FY 2016.**

TOP 5 CITED VIOLATIONS IN THERAPEUTIC MASSAGE ESTABLISHMENTS:  
FY 2016

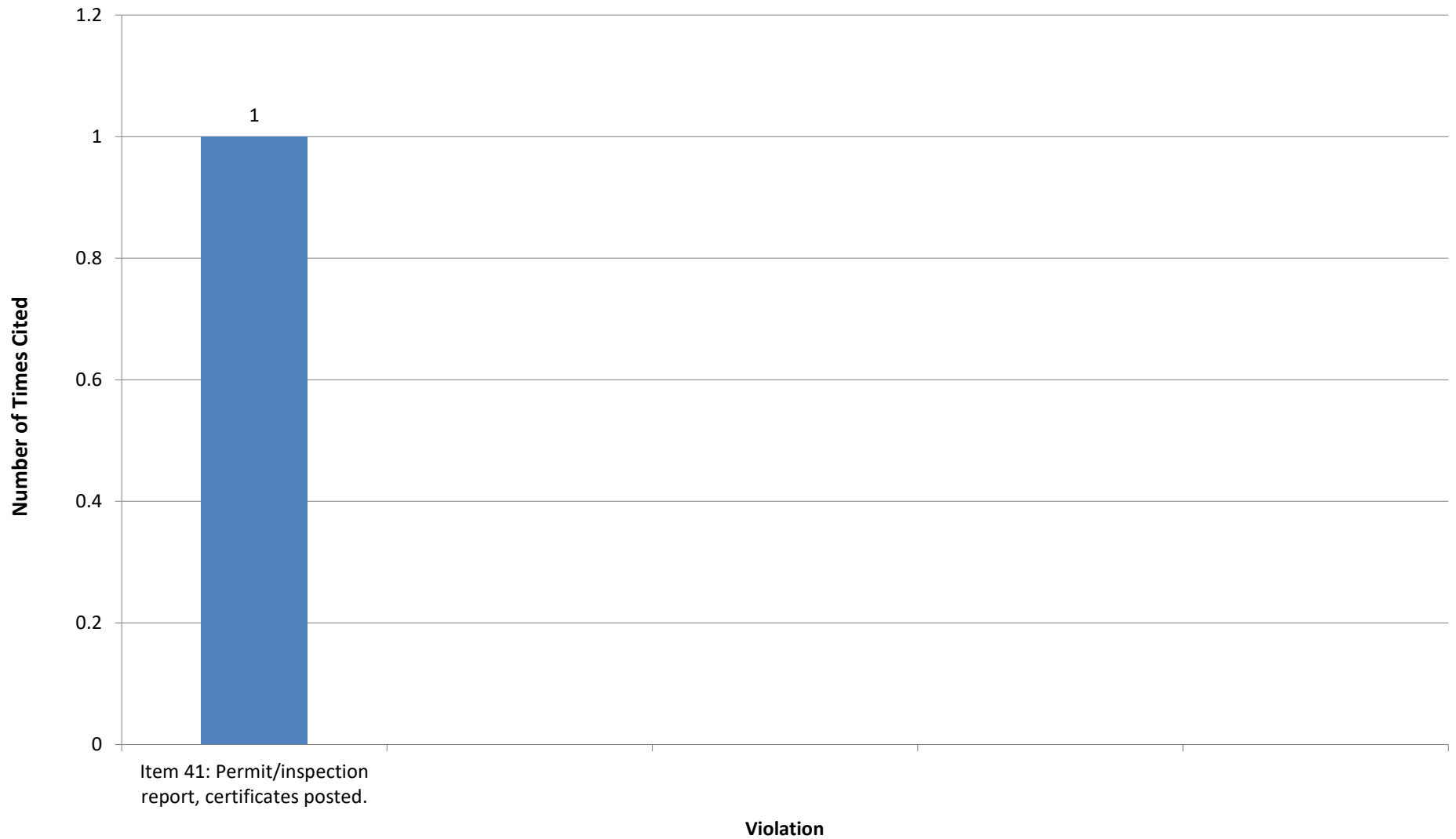


Figure 30. Violations most frequently cited by DEH for Therapeutic Massage Establishments, FY 2016.

# TRENDS

## TOP 5 CITED VIOLATIONS IN BEAUTY & BARBER ESTABLISHMENTS: FY 2016

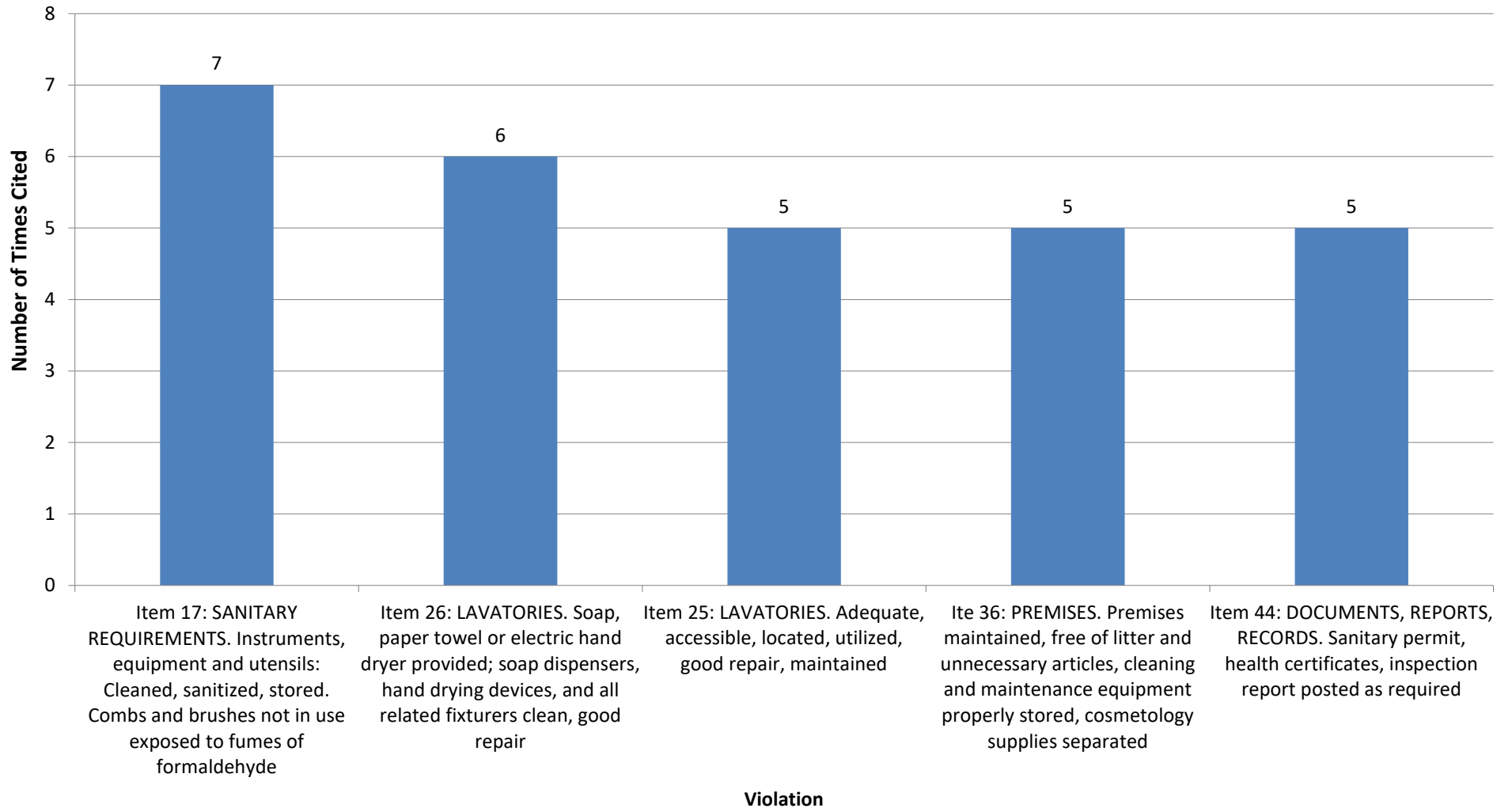
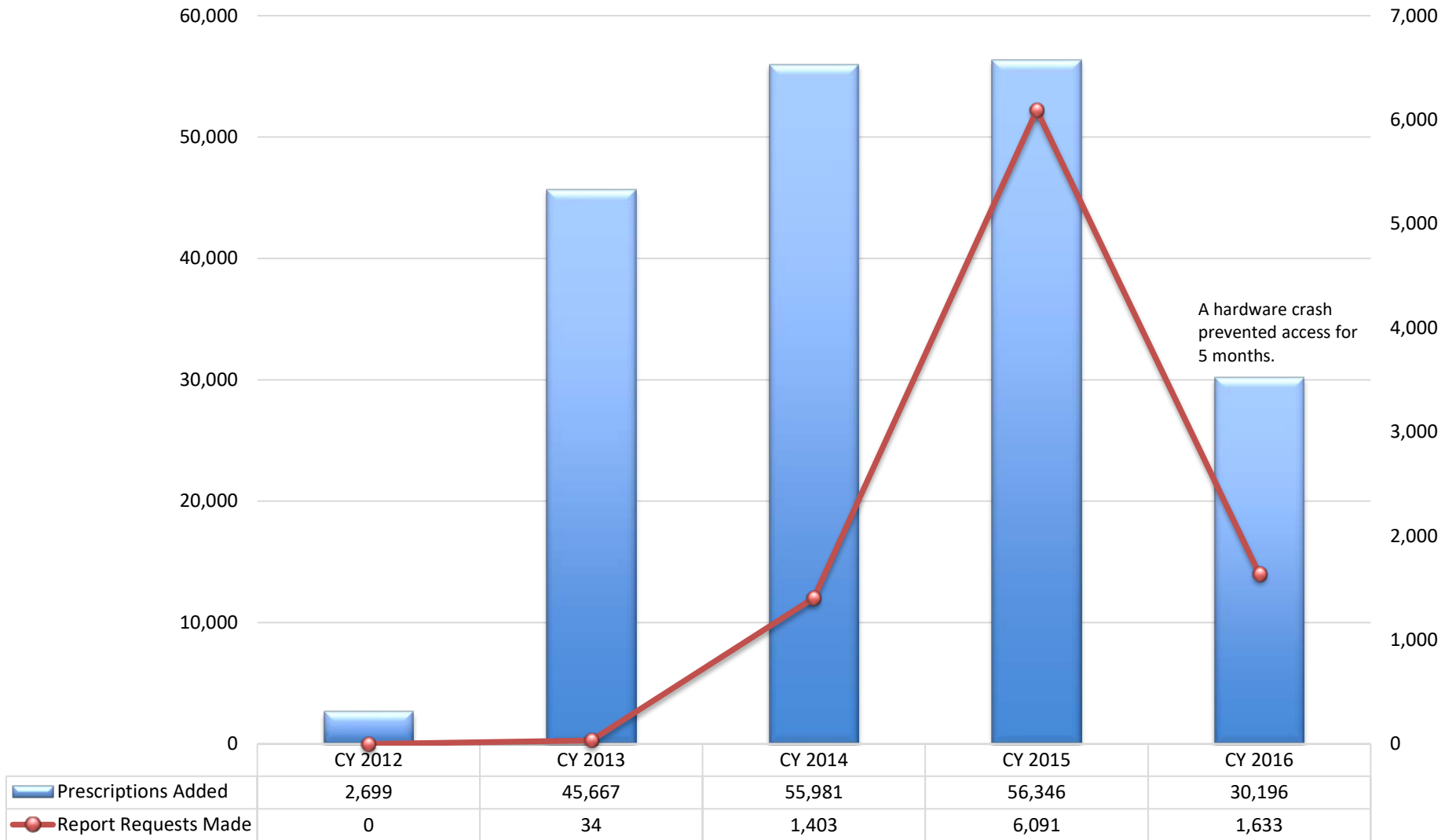


Figure 31. Violations most frequently cited by DEH for Beauty & Barber Establishments, FY 2016.

**PRESCRIPTIONS ADDED AND REPORTS REQUESTED, PRESCRIPTION DRUG MONITORING PROGRAM: CY 2012 - CY 2016**



**Figure 32. Prescriptions added to and reports requested from the Prescription Drug Monitoring Program database, CY 2012 – CY 2016.**



# TRENDS

## TOP 5 CONTROLLED SUBSTANCES DISPENSED BY PERCENT OF PRESCRIPTIONS ISSUED: Q4 FY'12 - FY'16

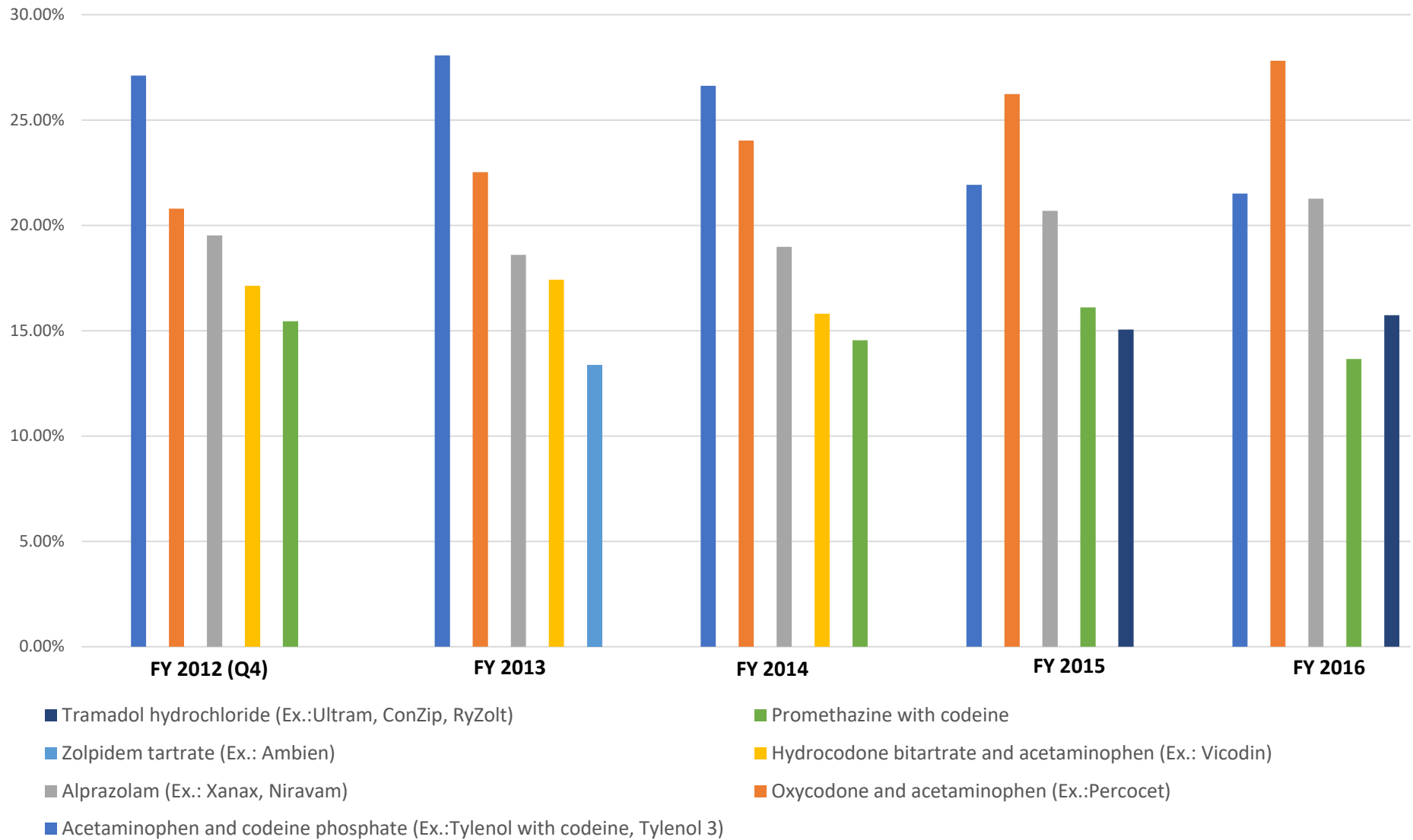


Figure 33. Top 5 controlled substances dispensed by number of prescriptions issued: Q4 FY 2012 – FY 2016.