Davis COUNTY HEALTH DEPARTMENT

2022 ANNUAL REPORT

Healthy Choices. Healthy People. Healthy Communities.

ENVIRONMENTAL HEALTH DIVISION

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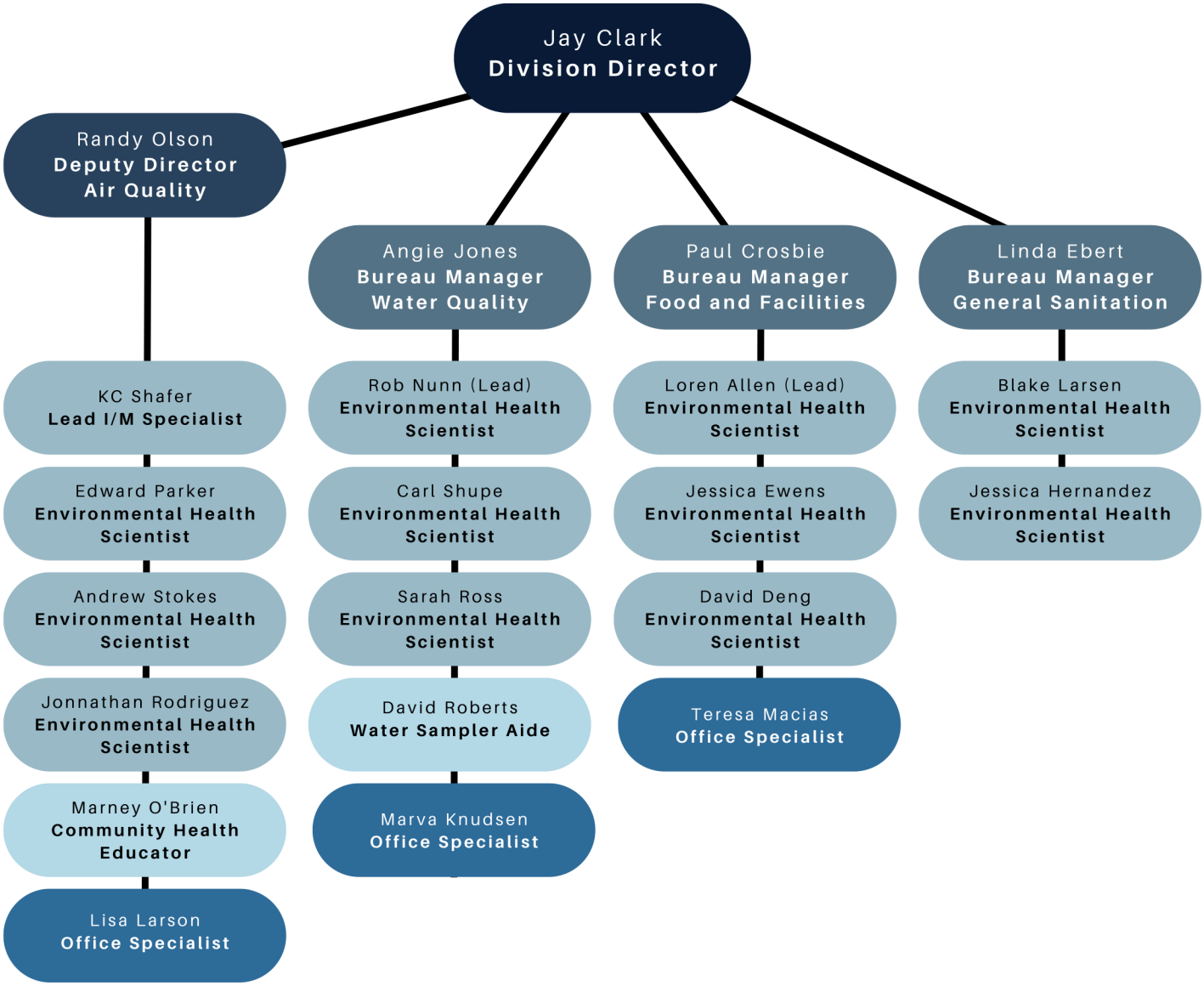
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OVERVIEW

The mission of the Davis County Health Department is to promote and protect the health and well-being of Davis County residents and their environment. The Environmental Health Division carries out this mission by establishing regulations, conducting inspections, investigating complaints, training the workforce, collaborating with partners, and making educational outreach efforts. While many of the Division's programs have existed for many years, the program priorities are dynamic and continue to evolve. These changes and shifts of importance are brought about by outbreaks, changing economics or politics, and new program development. National, regional, state, county and city trends have also contributed to shifting program focus. However, the foundational priorities of the Division are always rooted in ensuring food is safe to eat, water is safe to drink, air is clean to breathe, and principles of sanitation and safety are followed.

DIVISION ORGANIZATION



DIVISION HIGHLIGHTS

BOARD OF HEALTH REGULATION UPDATES

The Division presented at each of the Board of Health meetings this year and put forward many action items to be considered by the Board. Each of the action items put forward were reviewed and approved by the Board. The items presented were the:

- ***Food Service Sanitation Regulation*** revision to include permitting of Microenterprise Home Kitchens and the removal of the Secondary Food Truck Permit.
- ***Housing Regulation*** revision to more clearly outline duties of renters and landlords as well as adding requirements that would allow the Department to take enforcement actions on chemically contaminated properties, post them closed, and to require a decontamination permit.
- ***Davis County Vehicle Emission Inspection & Maintenance Ordinance*** revisions. The Board issued a Letter of Support to the Davis County Commission regarding the proposed changes.
- ***Electronic Cigarette Substance Regulation*** history of activities in Davis County. The regulation served as a stop-gap until the FDA was able to regulate the products. The Board was supportive of rescinding the regulation now that the FDA was regulating the manufacturing of e-liquid. This will be an action item in the first Board meeting of 2023.

LEGISLATIVE IMPACT

There have been many bills related to food trucks over the last few years. This year HB 146 was passed that required local health departments to recognize a permit issued by another jurisdiction, effectively eliminating Secondary Food Truck permits.

In 2021, the Microenterprise Home Kitchen Act was passed that would allow home kitchens to be used for the preparation of food for sale to the public. This bill also required the Utah Department of Health to create a rule to govern these kitchens. In 2022, R392-106 Microenterprise Home Kitchen Sanitation was established and the Department began issuing Microenterprise Home Kitchen permits.

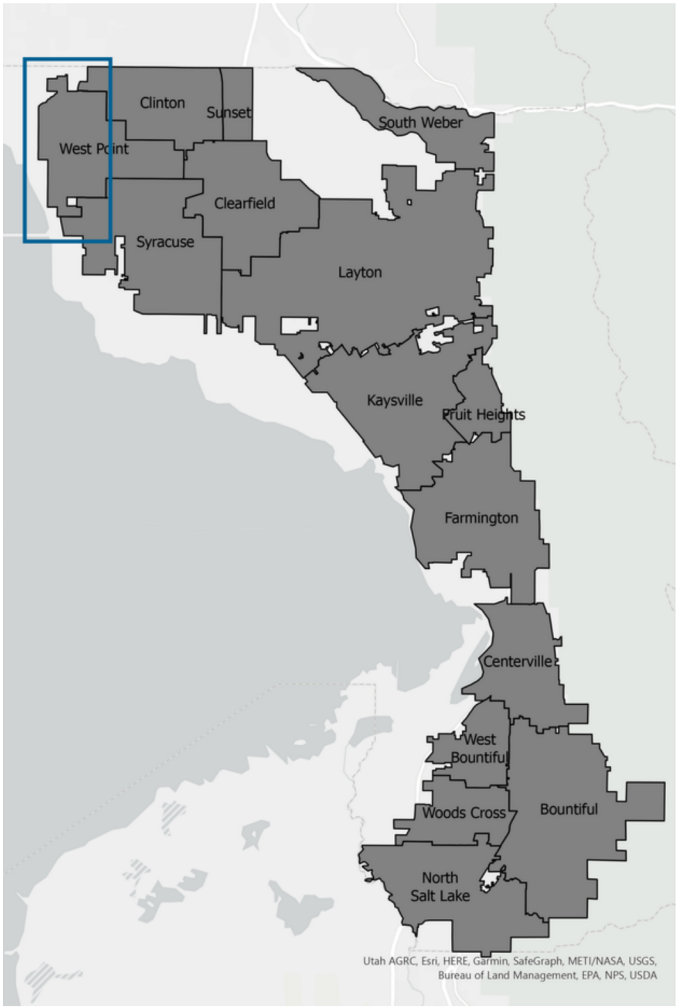
Local health departments are continually trying to crack down on fraud within the motor vehicle emissions I/M program. This year HB 336 passed, which allowed a local health department to issue a civil penalty of $1,000 if there is evidence that a motorist registered a vehicle in another county in order to avoid an emissions test. This has allowed the Department to begin working on a process to address this fraudulent activity.

After HB21 passed this year, schools were put under a mandate to sample and test all of their consumable drinking water taps for lead, by the end of 2023. Funding is being made available to analyze samples and remediate any taps found in excess of the maximum contaminant level. Childcare centers may also test and may be eligible for funding to remediate. The Department is contracted with the Division of Drinking Water to support schools in testing upon request, and will be reaching out to childcare centers to educate them about the bill.

BIG PROJECTS

WASTEWATER STUDY & WATER QUALITY FUNDING

There has been interest in developing the northwest area of unincorporated Davis County. This area however, is not currently equipped with a sanitary sewer system, meaning that unchecked development would result in a large number of septic systems in an area with high ground water. The Division has been working with a contracted environmental consultant to study the area (see map below) and provide recommendations for onsite wastewater system densities to influence land-use planning. The study was completed this year and a final report will be issued in early 2023. The Division was able to secure a $105,313 grant from the Division of Water Quality this year to help support this initiative.



VEHICLE EMISSIONS I/M PROGRAM RFP

The Division issued a Request for Proposal to contract with an I/M vendor to supply analyzers to all I/M test stations in the County and to maintain a centralized database. This was awarded to Opus in May and was due to go into effect January 1, 2023. However, due to ongoing parts shortages, the current contract with Worldwide Environmental Products was extended until June 30, 2023.

VEHICLE EMISSIONS I/M ORDINANCE

The Davis County Vehicle Emissions Inspection and Maintenance Ordinance was overhauled this year. The Division went through numerous reviews to remove redundancies, simplify language, as well as to propose the elimination of heavy-duty diesel testing and enable all other diesel testing to be conducted at any private I/M testing station. Pending DAQ, EPA and Commission approval, the revised ordinance will take effect July 1, 2023.

OUT-OF-STATE EMISSIONS DEFERRALS

In coordination with the other vehicle emissions I/M programs in the State, the Department began a new system for processing an emissions test deferral for vehicles registered in Davis County that are temporarily out-of-state for school or work. Vehicle owners must now submit documentation that the vehicle complies with emissions test requirements where the vehicle is located or provide proof that the vehicle is in a location where emissions tests are not required.

INTERLOCKING CHEMICAL FEEDERS OF PUBLIC POOLS

All public pools are required by state law to have two forms of interlock protection on all chemical feeders and attest this has been completed by January 31, 2023. Staff have been working with pool operators to ensure compliance by the deadline.

LEGIONELLA GRANT

The Division received a CDC grant through the Utah Department of Health to assess Legionella knowledge and prevention efforts in Davis County healthcare facilities. Division staff surveyed high risk facilities and provided Legionella prevention education and resources as needed.

RADON GRANT

The Division received a radon grant and was able to send one employee to the EPA Region 8 Radon Conference which was held in Moab, Utah.

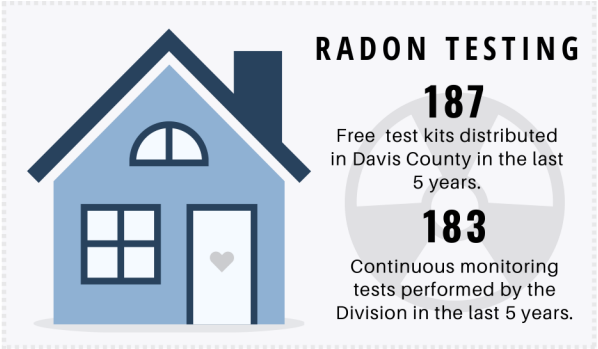
USED OIL GRANT

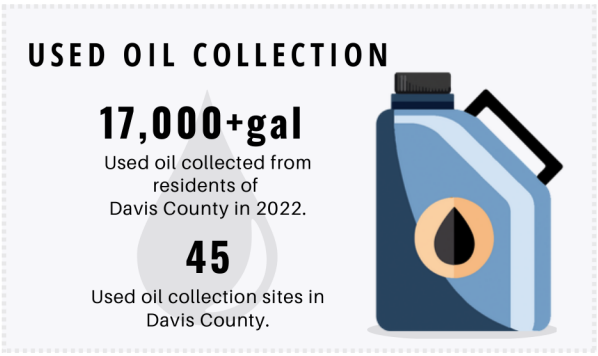
The Division received a Used Oil grant to purchase promotional materials which will be used to promote the proper disposal of used oil.

FDA GRANTS

The Division received a grant as part of its participation in the National Voluntary Retail Program Standards. This required the Division to complete a self-assessment of all nine standards and draft a Comprehensive Strategic Improvement Plan for achieving other standards.

National Voluntary Retail Program Standards	
Standard 1:	Regulatory Foundation
Standard 2:	Trained Regulatory Staff
Standard 3:	Inspection Program Based on HACCP Principles
Standard 4:	Uniform Inspection Program
Standard 5:	Foodborne Illness and Food Defense Preparedness and Response
Standard 6:	Compliance and Enforcement
Standard 7:	Industry and Community Relations
Standard 8:	Program Support and Resources
Standard 9:	Program Assessment





OUTREACH

WATER FAIR

The Division assisted the Davis County Stormwater Coalition with the Water Fair, an educational field trip held each year for Davis County 5th graders. Staff educated hundreds of students on the need to limit pollution and protect water quality.

SAFE KIDS FAIR

The Division participated in the 2022 Safe Kids Day and distributed used oil promotional materials along with lists of used oil drop off locations within the County.

FLUORIDE TRAINING

Division staff provided fluoride training to drinking water operators on multiple occasions this year, including at the Weber Basin Conservancy District, American Water Works Association's spring conference, Hill Air Force Base, and the Department's lab open house.

NOTABLE EVENTS

WATER SYSTEMS' ISSUES

The Division assisted water systems with multiple emergency situations this past year, including responding to three fluoride overfeed incidents. The extent of these overfeeds was limited, thanks to the quick response of the water systems to shut off the fluoride, flush lines, and sample in coordination with the Division. It is not believed that anyone experienced any health impacts due to these incidents. Additionally, the Division assisted with the investigation of E.coli found in a water system by conducting sampling, consulting on solutions, and providing education to help resolve the problem quickly.

STERICYCLE CLOSURE

Stericycle had operated in Davis County for 33 years before closing its incinerator this year. The Department had permitted this operation, inspected it each year, and charged fees for the amount of waste incinerated.

6,350,962 lbs



Waste incinerated by Stericycle in Davis County from January to June in 2022.

"Davis County Health Department has been one of, if not the most, valuable resources that I have had the opportunity to work with."

-Water Operator
Anonymous Survey

PERSONNEL CHANGES

The Division had many changes in management positions this year. Rachelle Blackham, who had been the Division Director, was promoted to be a Deputy Health Director over Senior Services within the Department. This promotion brought about a series of other changes: Jay Clark was promoted to Division Director, Randy Olson was promoted to Deputy Division Director, and Angie Jones was promoted to Bureau Manager. Then in October, Eric Taylor who was the Bureau Manager over the Food & Facilities Bureau, resigned his position. This position was filled by Paul Crosbie, who had previously been working for the Salt Lake County Health Department.

The Division's long time Office Manager, Dorothy Munson, retired this year after 37 years of service to the County.

Additionally, the Division hired David Roberts as a Water Sampler Aide, Jonnathan Rodriquez as an Environmental Scientist and shared Marney O'Brien with the Communicable Disease and Epidemiology Division, who was hired as a Community Health Educator.

These employees reached career service milestones with the County this year:

- Angie Jones 15 Years
- KC Shafer 10 Years
- Randy Olson 5 Years

by the NUMBERS

TOP 3 RISK FACTOR VIOLATIONS

316
Improper Cleaning & Sanitizing Violations

265
Handwash Sink Supplied & Accessible Violations

205
Food Improperly Stored Violations

WATER SAMPLES ANALYZED

4740
Drinking Water Samples Analyzed

3063
Public Pool Samples Analyzed

383
Water Quality Samples Analyzed

449
Fluoride Samples Analyzed

CHANGE OF OWNERSHIPS

37
Food Establishments

12
Public Pools

NEW PERMITS ISSUED

66 Food Establishments

5 Public Pools

28 Body Art Facilities

7 On-Site Wastewater

TOP 3 POOL IMMINENT HEALTH HAZARDS

57 Insufficient Chlorine

17 Excessive Chlorine

3 Gate Not Self-Closing

TOP 3 COMPLAINT CATEGORIES

107 Food Establishments

73 Illicit Discharge

63 Housing

I/M INSPECTIONS

232,189 Initial Tests

11.2% Diesel Emissions Failure Rate

8.1% Gasoline Emissions Failure Rate

OPERATORS TRAINED

106 Food Handlers

21 Certified Pool Operators

142 Drinking Water Operators

VRRAP

$26,649 Repair Dollars

$30,000 Replacement Dollars

1,556 Tons of Emissions Saved Over the Vehicles Lifetimes

WATER QUALITY ISSUES

7 Harmful Algal Blooms

38 Stream & Pond Exceedances

DIVISION PHOTOS





The Division participated in the Davis County Storm Water Coalition's Water Fair, where 5th graders were educated on protecting water quality.





Groundwater monitoring wells were installed and regularly sampled to complete the northwest Davis County groundwater study.



Division Staff toured Lagoon's drinking water, recreational water features, and food facilities.



The Environmental Response Team responded to numerous incidents, including this vehicle in a stream.



Division staff toured the inside of a 1,000,000 gallon drinking water storage reservoir.



An oil containment boom was placed on a creek to contain a spill.

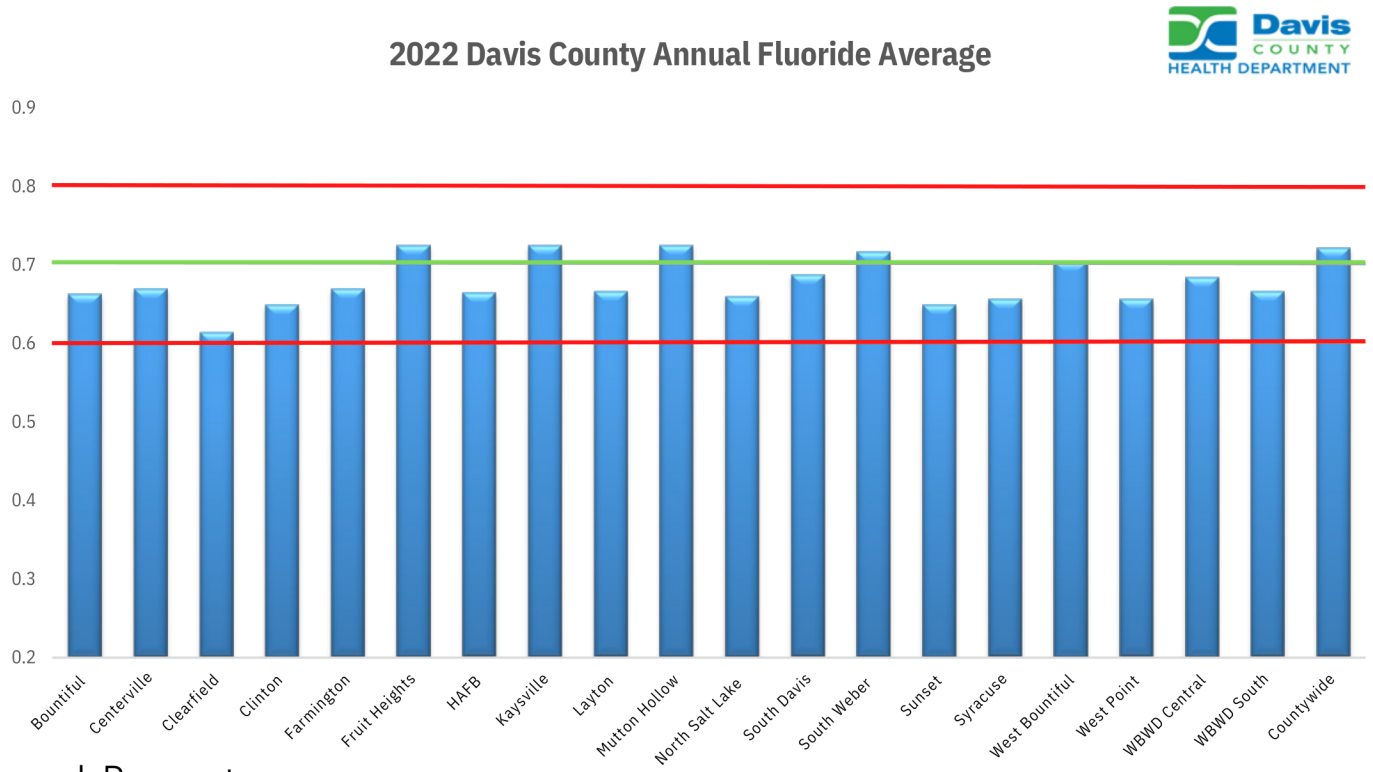
FLUORIDE ANNUAL REPORT

The Environmental Health Division regulates the application of fluoride into public drinking water systems within Davis County. This includes monitoring fluoride levels in public water supplies through laboratory analysis, ensuring field equipment used by public water systems is accurate, reviewing monthly reports, and requiring water operators to receive fluoride-specific training.

This year the Division partnered with the Weber Basin Water Conservancy District to provide training for 32 water operators and with the American Water Works Association to provide training to another 98 water operators. The Division also provided training to six water operators for Hill Air Force Base and another six water operators at the Division Open House. Training included regulatory updates, operator safety, and the operation and maintenance of fluoride equipment.

The Davis County Board of Health - Drinking Water Fluoridation Regulation requires that public water systems maintain fluoride levels between 0.6 and 0.8 ppm throughout their system while targeting an optimal level of 0.7 ppm. The Countywide fluoride average for this year was 0.721 ppm. The annual average for each of the County's water systems are displayed in the chart below. This year all water systems maintained compliance with the annual control ranges.

In addition to the Davis County Board of Health - Drinking Water Fluoridation Regulation, the Division works with water systems to ensure compliance with the Safe Drinking Water Disclosure Act which requires the fluoride compounds added to water maintain NSF/ANSI Standard 60 certification. The Division ensured that all 10 fluoridating water systems were in compliance with this standard. The Division also checked all fluoride components of the Hill Air Force Base, Farmington and North Salt Lake drinking water systems during their sanitary surveys. A sanitary survey is conducted on each water system every three years.



YEAR END DATA

PERMITTED ENTITIES:	TOTAL
FOOD ESTABLISHMENTS:	**789**
RISK I:	208
RISK II:	205
RISK III:	279
RISK IV:	90
RISK V:	7
PENDING:	30
MOBILE FOOD ESTABLISHMENTS:	**120**
PRIMARY FOOD TRUCK - RISK 1:	27
PRIMARY FOOD TRUCK - RISK 2:	60
SECONDARY FOOD TRUCK:	25
LIMITED-USE FOOD ESTABLISHMENT - RISK 1	1
LIMITED-USE FOOD ESTABLISHMENT - RISK 2	7
SEASONAL FOOD ESTABLISHMENTS:	**49**
RISK 1:	16
RISK 2:	21
FLAVORED ICE:	12
TEMPORARY FOOD ESTABLISHMENTS:	**137**
ANNUAL:	38
SINGLE EVENT - RISK 1:	58
SINGLE EVENT - RISK 2:	41
PERMITS OBTAINED ON-SITE:	11
SCHOOL FOOD ESTABLISHMENTS:	**110**
MIRCROENTERPRISE HOME KITCHENS:	**4**
PUBLIC SCHOOLS:	**93**
ELEMENTARY SCHOOL:	62
JUNIOR HIGH SCHOOL:	18
HIGH SCHOOL:	13
CHARTER/PRIVATE SCHOOLS:	**31**
CHARTER SCHOOL:	27
PRIVATE SCHOOL:	4
TEMPORARY MASS GATHERINGS:	**9**
PUBLIC POOLS:	**265**
YEAR ROUND POOL:	98
SEASONAL POOL:	142
OTHER:	3
PENDING:	22
ON-SITE WASTEWATER SYSTEMS:	**7**
ALTERNATIVE OPERATING PERMIT:	4
CONVENTIONAL OPERATING PERMIT:	3
CONSTRUCTION PERMIT:	0
BODY ART FACILITIES:	**74**
E-CIGARETTE SUBSTANCE MANUFACTURERS:	**1**
TANNING FACILITY:	**14**
WASTE HAULERS:	**463**
WASTE VEHICLE:	434
INFECTIOUS WASTE COLLECTION VEHICLE:	13
WASTE TIRE TRANSPORTER:	16
I/M STATIONS:	**139**
BASIC TESTING:	112
TESTING & REPAIR:	27
TOTAL PERMITS ISSUED:	**2,302**

INSPECTIONS/AUDITS:	TOTAL
FOOD ESTABLISHMENTS:	**1,104**
ROUTINE:	891
FOLLOW-UP:	40
CRITICAL ITEM:	55
PRE-OPENING/SITE REVIEW:	118
MOBILE FOOD ESTABLISHMENTS:	**119**
PRIMARY FOOD TRUCK:	98
SECONDARY FOOD TRUCK:	1
LIMITED-USE FOOD ESTABLISHMENT:	9
FOLLOW-UP:	7
PRE-OPENING/SITE REVIEW:	4
SEASONAL FOOD ESTABLISHMENTS:	**58**
ROUTINE:	54
FOLLOW-UP:	0
PRE-OPENING/SITE REVIEW:	4
TEMPORARY FOOD ESTABLISHMENTS:	**124**
SCHOOL FOOD ESTABLISHMENTS:	**223**
MICROENTERPRISE HOME KITCHENS:	**4**
SCHOOLS:	**36**
TEMPORARY MASS GATHERINGS:	**7**
RESIDENTIAL CARE FACILITIES:	**8**
CORRECTIONAL FACILITIES:	**2**
JOB CORPS:	**8**
PUBLIC POOLS:	**362**
ANNUAL:	231
FOLLOW-UP:	84
CONSTRUCTION:	25
PRE-OPENING:	22

INSPECTIONS/AUDITS:	TOTAL
ON-SITE WASTEWATER SYSTEMS:	**14**
CONSTRUCTION:	14
ABANONED SYSTEM:	0
FAILED SYSTEM:	0
BODY ART FACILITIES:	**74**
ROUTINE:	39
FOLLOW UP:	1
PRE-OPENING/SITE REVIEW:	34
E-CIGARETTE SUBSTANCE MANUFACTURERS:	**0**
ROUTINE:	0
FOLLOW-UP:	0
PRE-OPENING/SITE REVIEW:	0
TANNING FACILIES:	**21**
ROUTINE:	20
FOLLOW-UP:	1
PRE-OPENING-SITE REVIEW:	0
USED OIL COLLECTION CENTERS:	**90**
INFECTIOUS WASTE MANAGEMENT FACILIIES:	**0**
PUBLIC WATER SYSTEMS:	**6**
SANITARY SURVEY:	5
TIER 1 ASSESSMENT:	1
TIER 2 ASSESSMENT:	0
I/M STATIONS:	**320**
STATION AUDIT:	225
COVERT AUDITS:	89
PRE-OPENING:	6
TOTAL INSPECTIONS CONDUCTED:	**2,576**

COMPLAINT INVESTIGATIONS:	TOTAL
AIR QUALITY:	4
BODY ART:	2
CHEMICALLY CONTAMINATED PROPERTIES:	25
COSMETOLOGY:	6
COVID-RELATED:	6
DRINKING WATER:	16
ELEVATED BLOOD LEAD LEVELS:	14
FOOD ESTABLISHMENTS:	107
FOODBORNE ILLNESS INVESTIGATIONS:	1
HAZARDOUS MATERIALS:	2
HOUSING:	63
ILLICIT DISCHARGES - AIR:	4
ILLICIT DISCHARGES - GROUND:	33
ILLICIT DISCHARGES - WATER:	36
OTHER:	0
PUBLIC LODGINGS:	5
PUBLIC POOLS:	7
SCHOOLS:	2
SMOKING VEHICLES:	171
SOLID FUEL BURNING:	2
SOLID WASTE/GENERAL SANITATION:	5
USED OIL:	19
UTAH INDOOR CLEAN AIR ACT:	6
VECTOR CONTROL:	25
WASTEWATER:	0
WATER QUALITY:	3
TOTAL COMPLAINTS INVESTIGATED:	**564**
FOODBORNE ILLNESS SURVEILLANCE:	54

NOTICES:	TOTAL
FOOD ESTABLISHMENTS:	51
FOLLOW-UP INSPECTION:	31
COMPLIANCE MEETING:	8
PERMIT SUSPENSION:	0
CEASE & DESIST:	3
MOBILE FOOD ESTABLISHMENTS:	6
SEASONAL FOOD ESTABLISHMENTS:	0
TEMPORARY FOOD ESTABLISHMENTS:	3
SCHOOLS:	0
PUBLIC POOLS:	94
ON-SITE WASTEWATER SYSTEMS:	0
ILLICIT DISCHARGES:	2
BODY ART FACILITIES:	0
TANNING FACILIES:	1
COSMETOLOGY FACILITIES:	1
HOUSING:	4
I/M PROGRAM:	38
SMOKING VEHICLE:	13
VIN MISMATCH:	23
GENERAL I/M:	2
NOTICES OF VIOLATION (NOV):	13
I/M PROGRAM:	6
ILLICIT DISCHARGE:	7
OTHER:	0
TOTAL NOTICES ISSUED:	**204**

NOTE: Programs not listed did not have any Notices in 2022.

TRAINING AND EDUCATION:	TOTAL
FOOD HANDLER PERMITS ISSUED:	**11,089**
INTERNAL CLASS IN SPANISH:	79
INTERNAL CLASS IN ENGLISH:	27
EXTERNAL VENDOR PERMITS:	10,983
FOOD SAFETY MANAGERS REGISTERED:	**378**
WATER OPERATORS TRAINED:	**142**
INTERNAL POOL OPERATOR TRAINING:	**21**
I/M TECHNICIANS TRAINED:	**178**
NEW TECHNICIANS:	149
RE-TRAIN OF TECHNICIANS:	26
ON-SITE TRAINING OF TECHNICIANS W/ COVERT CAR:	3

PLAN REVIEWS:	TOTAL
FOOD ESTABLISHMENTS:	**89**
PLAN REVIEWS:	45
SITE REVIEWS:	7
CHANGE OF OWNERSHIP:	37
MOBILE FOOD ESTABLISHMENTS:	**4**
SEASONAL FOOD ESTABLISHMENTS:	**4**
TEMPORARY FOOD ESTABLISHMENTS:	**123**
SCHOOLS:	**4**
PUBLIC POOLS:	**16**
CHANGE OF OWNERSHIP:	12
ON-SITE WASTEWATER SYSTEMS:	**2**
FEASIBILITY ASSESSMENT RECORDS:	0
SITE ASSESSMENTS:	0
SOIL EVALUATIONS:	2
PLAN REVIEWS:	0

ENVIRONMENTAL HEALTH LAB:	TOTAL
DRINKING WATER SAMPLES ANALYZED:	**4,740**
ROUTINE:	3,575
REPEAT:	49
CITY INVESTIGATIVES:	784
DCHD INVESTIGATIVES:	332
FLUORIDE SAMPLES ANALYZED:	**449**
SPLIT SAMPLES:	82
CITY/PRIVATE INVESTIGATIVES:	0
DCHD INVESTIGATIVES:	367
POOL SAMPLES ANALYZED:	**3,063**
ROUTINE:	2,742
REPEAT:	321
RECREATIONAL WATER SAMPLES:	**383**
STREAMS:	148
PONDS:	235
GREAT SALT LAKE:	0

ADDITIONAL SERVICES:	TOTAL
ENVIRONMENTAL RESPONSE CALLOUTS:	**48**
RADON TESTS CONDUCTED:	**21**
SITE ASSESSMENTS COMPLETED:	**94**
CHEMICALLY CONTAMINATED PROPERTIES:	**25**
I/M CONTRACTOR DATA:	
TOTAL INITIAL EMISSION TESTS:	**232,189**
TOTAL FAILED EMISSIONS TESTS:	**19,081**
DIESEL EMISSIONS FAILURE RATE:	**11.2%**
GASOLINE EMISSIONS FAILURE RATE:	**8.1%**
TOTAL INITIAL OBD TESTS:	**219,573**
TOTAL INITIAL TWO-SPEED IDLE TESTS:	**8,853**
TOTAL INITIAL CONTRACTOR TESTS:	**3,360**
CERTIFICATE OF WAIVERS ISSUED:	**31**