



CITY OF KIRKLAND FIRE DEPARTMENT



KIRKLAND

2019 ANNUAL REPORT

OUR CITY • OUR PEOPLE • OUR DUTY • OUR COMMITMENT TO SERVE

MESSAGE FROM THE CHIEF



Chief **Joseph Sanford**



Washington

became a state in 1889. That same year the Great Seattle Fire destroyed much of the heart of that city and the people of Kirkland watched as smoke rose across Lake Washington for days. One year later, in 1890, the Kirkland Fire Department was formed. The "Fire" Department has evolved since that time keeping pace with the changing needs of our community. The department now handles Emergency Medical Services (EMS) which constitute nearly 70% of our calls. In addition, responses to Hazardous Materials and a variety of technical rescue disciplines – including trench rescue, confined space, structural collapse, high angle rescues and water rescue incidents are all handled by the men and women on the front lines in Operations. Together with our teams in the Fire Prevention Bureau, the Training Division, Emergency Medical Services, Fire Administration and the Office of Emergency Management we make up what's now the Kirkland Fire Department.

What hasn't changed over those 129 years is the commitment and support from both our City Council and our community. We have been supported with state of the art vehicles, protective equipment, medical training and equipment and other necessities needed to serve our evolving community. Fire Station 25 was completely renovated in 2018 and property for

a new fire station in North Juanita was acquired in 2019. This new station will be completed in summer of 2021. Plans for a possible ballot measure in November of 2020 would renovate the three remaining fire stations, some of which are nearly 50 years old. These renovations would provide much needed seismic upgrades and provide substantial health protections to firefighters whose frequency of cancers are rising significantly. This new fire station, together with relocating Fire Station 27 east of I-405, will provide improved response times to the north end of Kirkland. Additional firefighters will provide a dedicated EMS unit in south Kirkland reducing response time there.

The dedicated men and women of the Kirkland Fire Department are committed to providing the best fire, medical, and rescue services possible, twenty-four hours a day, seven days a week, 365 days a year. We are so grateful for your support in making this possible.

- **Joseph Sanford**, Fire Chief, Kirkland Fire Dept.

KFD MISSION

The City of Kirkland Fire Department has existed within the state of Washington since 1890. The Kirkland Fire Department is legally established as a department through RCW 35A.01.01 and RCW 35A.11.020 and Kirkland Municipal Code 3.16.037.



MISSION STATEMENT

**OUR CITY * OUR PEOPLE * OUR DUTY
OUR COMMITMENT TO SERVE**

KFD VISION

The Kirkland Fire Department is creating a safer community as a respected partner in our region and an innovative leader in the nation.

VALUES

- **SUPPORTIVE** – Working together as a team toward a common goal.
- **PROFESSIONAL** – Upholding industry standards and honoring the expectations of a professional firefighter both on and off the job.
- **INTEGRITY** – Maintaining consistency between actions and words at all times.
- **RESPECTFUL** – Treating others with understanding and compassion. Acknowledging there is strength in diversity.
- **INNOVATIVE** – Providing a supportive work environment that encourages and empowers improvement through creativity.
- **TRUST** – Being fair, truthful, competent and honorable; Confident that the actions of others are fair, truthful, competent and honorable.

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DEPARTMENT INFORMATION



OVERVIEW

History:

The City of Kirkland Fire Department has existed within the State of Washington since 1890.

The first fire chief was hired in 1928 and the first paid firefighters for the City were hired in 1969. Our Fire Chief is currently Chief Joe Sanford. As director of the fire department, Chief Sanford oversees the offices of the Deputy Chief of Administration, the Deputy Chief of Operations, and the City Emergency Manager and Administrative Services.

The City of Kirkland Fire Department provided fire service to King County Fire Protection District #41 by a contract agreement (Kirkland Municipal Code 3.24.010) from November 1969 to June 2011. In 2011 the City of Kirkland annexed all of Fire District 41 and a small portion of Fire Districts 34 and 36.

Services Provided:

The services provided to the community by the Fire Department include:

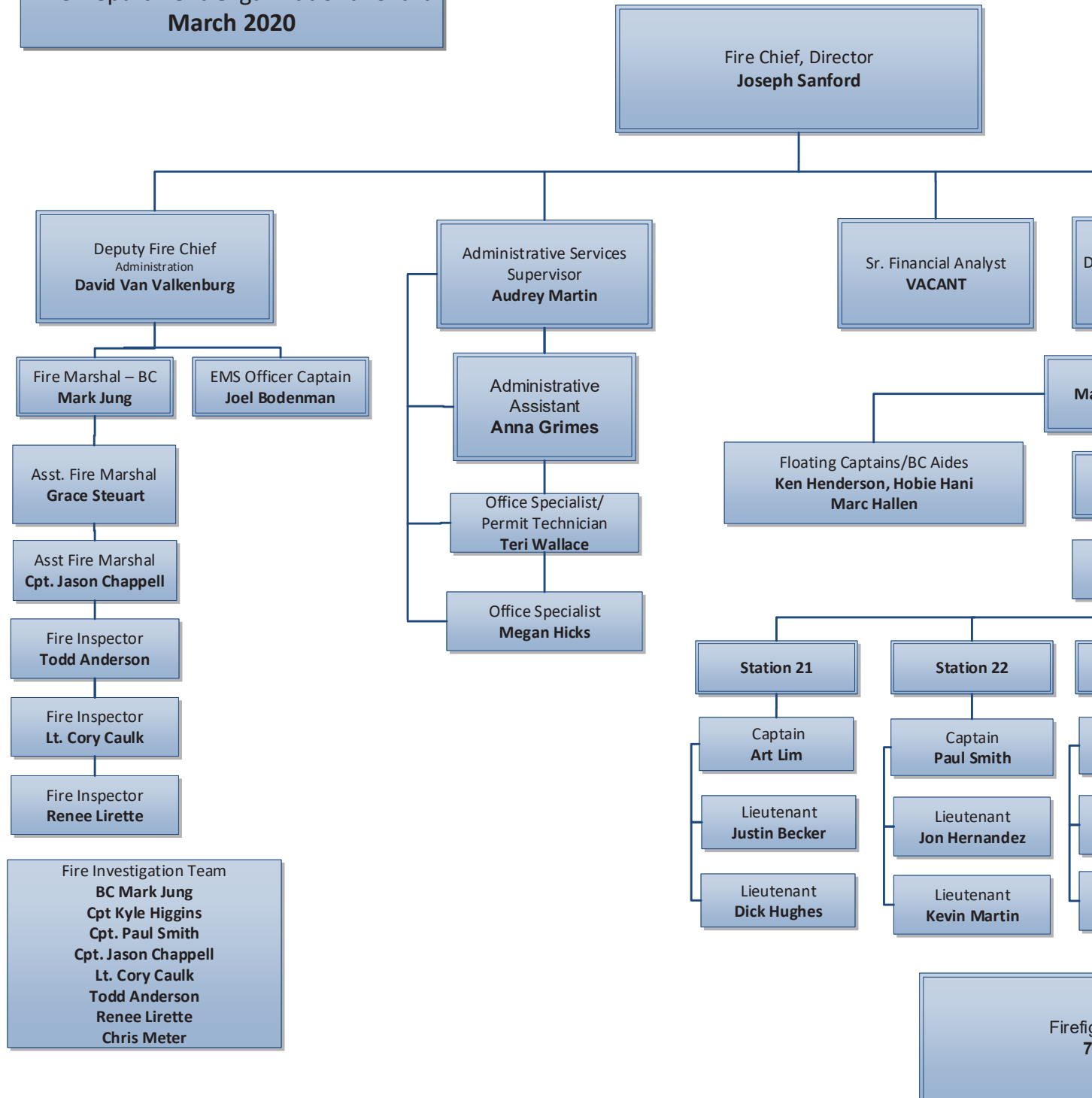
- Fire and emergency medical response (all response personnel are certified EMTs)
- Special operations including vehicle extrications, technical rescue, urban-wildland interface and surface water rescue.
- Automatic aid to surrounding jurisdictions
- Fire Prevention and permits
- Fire Investigation
- Emergency Management

The Regional services provided to the community in partnership with neighboring Fire Departments include:

- Emergency dispatch and 911 services provided by North East King County Regional Public Safety Communication Agency (NORCOM) www.norcom.org.
- Hazardous Materials Response provided to the community by the Eastside HazMat Team.
- Advanced Life Support (ALS) services are provided to Kirkland residents primarily by the City of Redmond Fire Department. The medic program is part of the King County Medic One Program.
- Training Division, part of the East Metro Training Group (EMTG). The EMTG is composed of the Kirkland, Mercer Island, Bellevue, and Redmond Fire Departments.

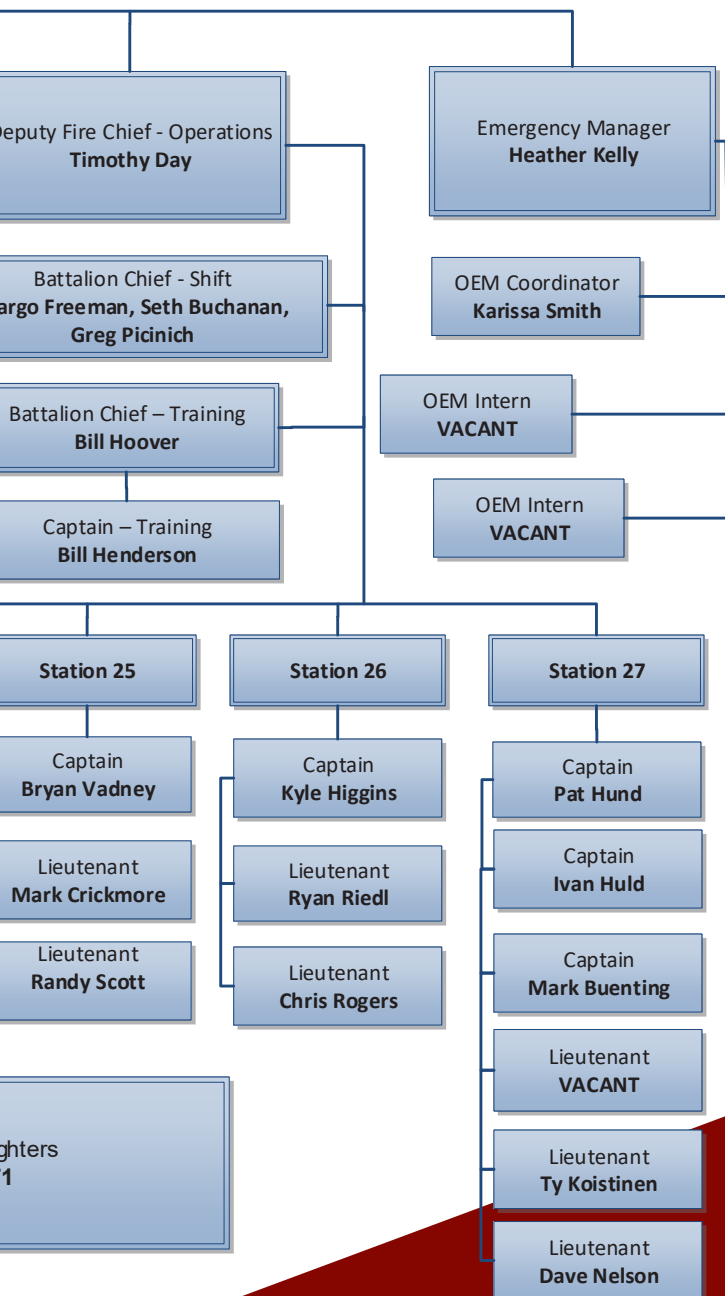
KIRKLAND FIRE DEPARTMENT ORG CHART

City of Kirkland Fire Department Organizational Chart March 2020



KIRKLAND AT A GLANCE

Founded	1888
Incorporated.....	1905
Consolidated with Town of Houghton	1968
Annexation of Finn Hill, N Juanita & Kingsgate	June 1, 2011
2019 Population	86,772
Land Area	17.81 sq. miles
Fire Department Grading Class.....	4
Total City Budget (2019-20 Final Budget).....	\$763,567,886
City Operating Budget (2019-20 Final Budget).....	\$475,528,708
2019 Full-Time City Employees (FTEs)	604.9 FTE



STATION INFORMATION & STAFFING PROFILE (2019)

Fire Department Headquarters

Kirkland City Hall

- Mailing address: 123 5th Avenue, Kirkland, WA 98033
- Dept. Main-line: 425-587-3650
- Fire Services Website: www.kirklandwa.gov/depart/Fire_Services.htm
- Office of Emergency Management Website: www.kirklandwa.gov/depart/Fire_Services/KirklandEM.htm

Station Information

STATION 21 – Forbes Creek

Location: 9816 Forbes Creek Drive

Date Built: 1997 (8,541 sq. ft.)

STAFFING:

- 3 crew members

APPARATUS:

- A121
- E121
- E129

STATION 22 – Houghton

Location: 6602 108th Ave. NE

Date Built: 1980 (9,071 sq. ft.)

STAFFING:

- 3 crew members

APPARATUS:

- A122
- E122
- AU121
- E128
- 1926 American LaFrance Pumper

STATION 25 – Finn Hill

Location: 12033 76th PL NE

Date Built: 1973 (6,488 sq. ft.)

Renovated: 2018 (7,382 sq. ft.)

STAFFING:

- 4 crew members

APPARATUS:

- A125
- E125

STATION 26 – North Rose Hill

Location: 9930 124th Ave NE

Date Built: 1994 (9,795 sq. ft.)

STAFFING:

- 3 crew members
- 1 Battalion Chief

APPARATUS

- A126
- E126
- B121
- A128

STATION 27 – Totem Lake

Location: 11210 NE 132nd St.

Date Built: 1974 (8,159 sq. ft.)

STAFFING:

- 6 crew members

APPARATUS:

- A127
- A129
- E127
- L127

Work Schedule

Emergency response staffing is done on a three shift platoon rotation. The schedule is a 48/96 rotation. Firefighters are assigned to a 48 hour work week divided into two consecutive 24 hours shifts followed by 96 hours off.

Fire Station Staffing

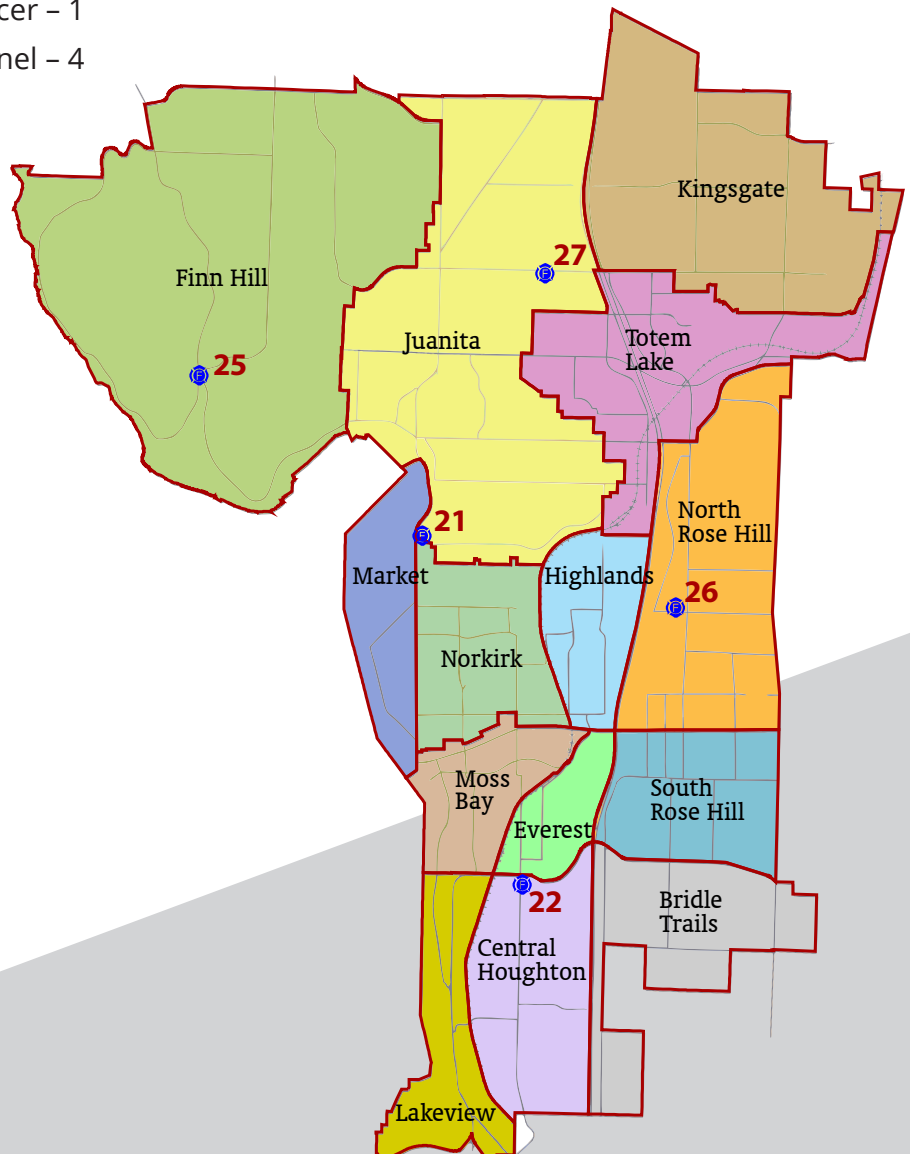
Stations 21, 22, 26, and 27 are cross-staffed stations. A cross-staffed station has more than one type of apparatus, usually an aid car and fire engine. The on duty Firefighters respond in which ever unit is dispatched. As an example, if Aid 26 is dispatched for an aid response, the engine is unavailable for subsequent responses until the aid car returns to the station.

Personnel

- Emergency response personnel – 92
- Everyday minimum on-duty strength – 20
- Prevention personnel – 6
- Training Officers – 2
- Emergency Medical Services Officer – 1
- Non-Uniformed (Civilian) personnel – 4
- City Emergency Management – 2
- Command staff – 3

Minimum Staffing for Emergency Response

- Engine company - 3 Firefighters/EMTs
- Aid car - 2 Firefighters/EMTs
- Ladder company - 3 Firefighters/EMTs
- Battalion Chief - 1 Chief Officer



2019 FIRE DEPARTMENT BUDGET

EXPENDITURES:

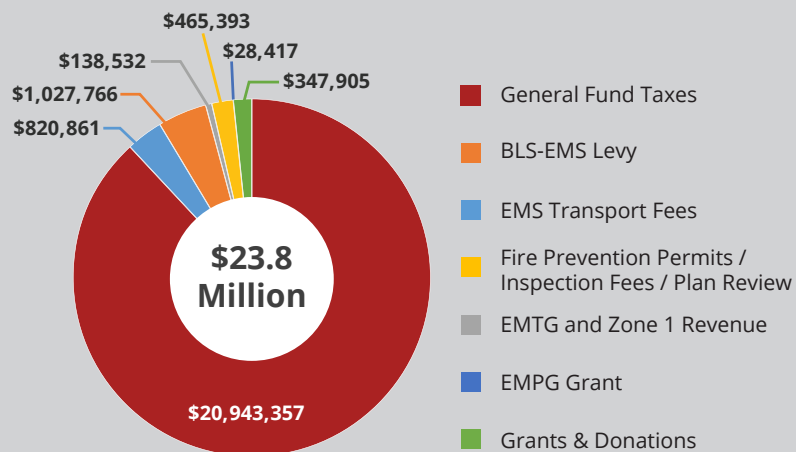
Department	Total	Personnel ¹	Internal Charges ²	Other ³
Fire Operations	\$19,743,672	\$16,373,213	\$2,392,877	\$977,583
Training	\$719,073	\$617,176	\$47,739	\$54,158
Administration	\$1,662,852	\$1,176,652	\$250,983	\$235,218
Fire Prevention	\$1,172,180	\$967,562	\$93,398	\$111,220
Office of Emergency Management (OEM)	\$474,454	\$306,940	\$29,235	\$138,279
TOTAL	\$23,772,231	\$19,441,543	\$2,814,231	\$1,516,457

1. Personnel includes: benefits, overtime, hourly wages, uniforms, and protective equipment

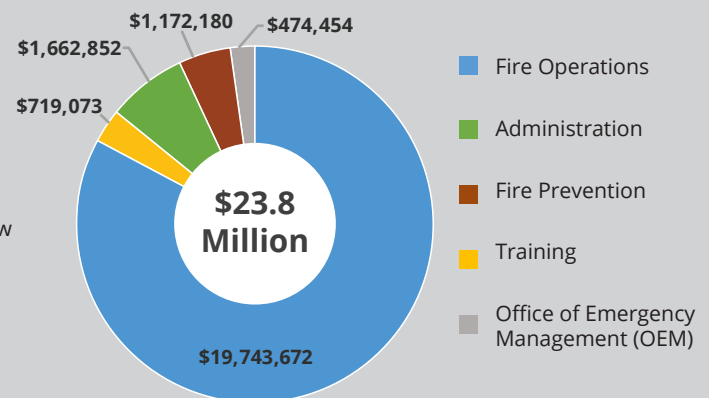
2. Internal Charges includes: Fleet, Information Technology, liability insurance and Facility charges

3. Other includes: safety gear, medical supplies, tools and supplies for fire stations and apparatus, office supplies, professional services/contracts, and all supplies in training, prevention, and administration

2019 Actual Revenues



2019 Actual Expenditures



2019 FIRE DEPARTMENT REVENUES:

	Actuals
EMS Transport Fees	\$820,861
BLS-EMS Levy	\$1,027,766
EMTG and Zone 1 Revenue	\$138,532
Fire Prevention Permits/Inspection Fees/Plan Review	\$465,393
EMPG Grant	\$28,417
Grants & Donations	\$347,905
General Fund Taxes	\$20,943,357
TOTAL	\$23,772,231

Basic Life Support (BLS) Transport User Fee Program

The BLS Transport User Fee Program was established to create a sustainable revenue source to support essential emergency medical services. Revenue from the BLS transport user fees are utilized to cover a portion of the cost of providing emergency medical service to the Kirkland community.

The user fees are currently used to maintain service levels; in the future, additional revenue from fees may be used to improve service, reduce response times, and provide greater EMS resources to the community.

2019 TRANSPORTS

TRANSPORT FEES: \$820,861

TOTAL REVENUE: \$2,828,874

Resident 1812 76%

Non-Resident 519 22%

City Employee at Work + 48 2%

2379

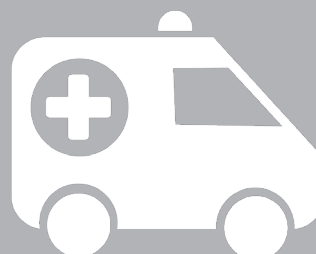
TRANSPORTS BILLED

65

**TRANSPORTS NOT BILLED
(out of jurisdiction)**

2444

TOTAL # OF TRANSPORTS:



RECOGNITION AND SERVICE

The Kirkland Fire Department recognizes our employees for their years of service to our community. The following members have reached important milestones in their careers.

YEARS OF SERVICE:

Robert Holmes Sr.	35	Terry Russell	15	Megan Keyes	10
Bryan Vadney	35	Victoria Davies	15	Kevin Martin	10
Marc Hallen	25	Michael Boyer	10	Erik Gustafson	5
Ken Weihs	20	Darren Broekhuis	10	Dustin Hill	5
Jesse Disch	15	Darren DeBoer	10		

2019 PROMOTIONS:

Battalion Chief: Margo Freeman, Seth Buchanan, Greg Picinich

Captain: Art Lim, Kyle Higgins, Paul Smith

Lieutenant: Jon Hernandez, Dave Nelson, Ty Koistinen, Mark Crickmore

2019 RETIREMENTS:

Mike Jeffrey - Battalion Chief, **35 years** of service

Victoria Davies - Administrative Assistant, **15 years** of service

Mike Dettmer - Battalion Chief, **38 years** of service

Robert Holmes Sr. - Firefighter, **35 years** of service

William Darnell - Firefighter, **27 years** of service

GRADUATING CLASS 10:

Andrew Lim | Arthur Park | Carlos Toledano | Ryan Magnin | Aaron McVay



MEDAL OF VALOR



RECEIVING THE MEDAL OF VALOR

On February 14th, 2019, Ladder 27, with Engine 25 and 27 were dispatched to a garbage truck that had slid off a steep icy roadway, trapping the driver beneath the vehicle.

While all the crews were recognized for their efforts, FF Jesse Martindale and Lt. Ty Koistinen were singled out by their peers for the valiant efforts to save the driver. For almost an hour, Ty and Jesse worked beneath the vehicle in snow, mud and water to extricate the driver. By tunneling through the mud and snow, the two firefighters were able to dig down under the patient to create enough space to slide the driver out from under the vehicle. The driver was rescued from beneath the vehicle with no-life threatening injuries.

The selfless actions of Lt. Koistinen and FF Jesse Martindale reflect the highest traditions of the Fire Service. In recognition of their extraordinary efforts under difficult and dangerous conditions, the Kirkland Fire Department awarded the Medal of Valor to Lt. Ty Koistinen and FF Jesse Martindale.



FUTURE WOMEN IN EMS AND FIRE

The King County Fire Chiefs Association and King County EMS are committed to improving diversity in fire departments and EMS and are actively recruiting women to join the workforce. The goal of this two-day 'Future Women in EMS and Fire' workshop, which was designed by women for women, is to educate, clarify, and provide support for women in the hiring process. 40 workshop participants will spend a weekend exploring the world of fire and EMS, learning CPR and firefighting tasks, watching demonstrations and participating in hands-on training. Participants will hear from women from various agencies around the county during discussion panels. Workshops are held biannually at designated locations throughout King County. Over 70 women from the region have participated in past workshops, some of whom are now working full-time in this career.

Firefighters Keelin Pattillo and Megan Keyes participated in the 2019 Future Women in EMS and Fire event.

Nine agencies with female firefighters have participated or hosted: Shoreline Fire Department, King County Medic One, Redmond Fire Department, Renton Regional Fire Authority, Valley Regional Fire Authority, Puget Sound Regional Fire Authority, Tukwila Fire Department, Bothell Fire Department, and Kirkland Fire Department.



Firefighters Keelin Pattillo and Megan Keyes participated in the 2019 Future Women in EMS and Fire event.

FIRE DEPARTMENT RECRUITMENT

Kirkland Fire has initiated a recruitment program as a component of the entry level hiring process. The recruitment program focuses on two primary goals. The first is greater inclusion and diversity in the hiring program. KFD Staff also participate in the King County Fire Chief's Diversity Committee in support of region wide inclusion in our hiring practices. The second is to prepare candidates to successfully navigate the hiring process.

KFD, like many agencies in King County, uses a three-step interview process. The interviews are geared towards finding those individuals best suited for a productive career with the City of Kirkland.

Kirkland hosts an open house each spring. Candidates that have successfully passed the written and physical tests are invited to participate. Candidates are provided the "dos and don'ts" of an interview panel, attributes of a desirable candidate, and an opportunity to ask questions about the City or Department. Breakout sessions offer a chance to meet KFD staff and interact on a personal level.

Of the five recruits hired in 2019, three had attended a Kirkland Fire Department Open house.



COMMUNITY ENGAGEMENT

Kirkland Firefighters appreciate being viewed as role models for our residents in our City. KFD values having a presence in the community. Public interaction is a vital component of our communities' health. In addition to station tours and school visits, our firefighters participate in annual community wide events including National Night Out, Touch a Truck and Walk to School events.



WATCH US GROW!



As part of the Kirkland Fire Department's Strategic plan, the City has been planning and designing a new Station 24. The new fire station is being paid for with funds saved by the City over the past five years.

Building Station 24 is part of a larger growth plan for Kirkland Fire. After Station 24 is built, the Department will work to relocate Station 27 to the east of I-405. Both stations will have positive impacts on

response times and levels of service to the Finn Hill and Kingsgate neighborhoods. The new Station 24 will be located on NE 132 St, the former site of Rite Aid.

When completed in the Summer of 2021, the 11,000 square foot station will be the home for three Firefighters in the north end of the city.

COMMUNITY SAFETY ADVISORY GROUP REPORT

At the September 17, 2019 Council meeting, the City Council adopted Resolution R-5386 directing the City Manager to further explore the possibility of a Fire and Emergency Medical Services (EMS) ballot measure. The goals of the ballot measure are to improve response times and enhance firefighter health and safety. City and Fire Department staff embarked on a five-month long community engagement process. The initial step of the engagement process was the formation of the Community Safety Advisory Group (ComSAG). The ComSAG was chaired by Mayor Penny Sweet and comprised of 30 members from various community groups.

The ComSAG met from October 2019 through February 2020. City of Kirkland staff educated the group on all things fire and EMS during the months of October, November, and December. Once the ComSAG reconvened after the holidays, it was their turn to inform staff of what investments they felt the City should include in a ballot measure, and what funding mechanisms to use.

Community Groups

- Juanita Neighborhood
- Finn Hill
- Evergreen Hill
- Market, Highlands
- North Rose Hill
- Moss Bay
- Lakeview
- South Rose Hill/Bridle Trails
- Kirkland Downtown Association
- Northwest University
- Kirkland Indivisible
- Lake WA Institute of Technology
- Google
- Lake WA School District
- Kiwanis
- Kirkland Business Roundtable
- Houghton Community Council
- Senior Council
- Youth Council
- Totem Lake Neighborhood
- Ismaili Community
- Community Emergency Response Team (CERT)
- Kirkland Emergency Communications Team (KECT)

The ComSAG evaluated areas of potential improvements in service for the community. Projects evaluated by ComSAG:

- Constructing a new Station 27 east of I-405
- Health and Safety, seismic renovations and modernization of:
 - » Station 21, Forbes Creek
 - » Station 22, Houghton
 - » Station 26, North Rose Hill
- Ongoing levy to hire 24 firefighter/EMTs
 - » Staff dedicated aid cars at Station 27 and Station 22
 - » Add staffing at Station 24 and Station 26



The full ComSAG report is available on [the City's website](#).

City Council, ComSAG, Fire Department, and City staff continue to work to provide a plan for systemic growth to advance fire and EMS services for all residents of Kirkland.

EMERGENCY RESPONSE



OPERATIONS OVERVIEW

Kirkland Fire is an “all hazards” emergency response organization. The largest percentage of our responses continue to be emergency medical calls. In addition to being trained as Emergency Medical Technicians, KFD firefighters are cross trained in many different areas.

Firefighters routinely provide emergency services for structure fires, vehicle and dumpster fires, brush fires, motor vehicle accidents and various types of rescue calls. Additionally, firefighters often are called upon for non-emergency situations such as people trapped in an elevator, fallen trees or downed powerlines, broken water pipes or other situations requiring our intervention.

Kirkland Fire maintains “all-hazards” response capabilities that match the risks in our community, including fire suppression, technical rescue disciplines such as high angle rope rescue; confined space, trench, motor vehicle, and collapse rescue; wildland, hazardous materials response, and water rescue.

To achieve this, a minimum of 20 Firefighter/Emergency Medical Technicians are available to respond from five fire stations located throughout the City of Kirkland. This local response capability is enhanced through regional cooperation with our public safety partners from across King County.



TRAINING OVERVIEW



The Kirkland Fire Department's Training Division is responsible for planning, coordinating, and delivery of all on duty training for Kirkland Fire Department personnel. KFD is an "all hazards" department. This means your firefighters are cross trained in multiple disciplines. While the largest majority of our responses are medical in nature, our personnel are trained for a variety of situations including:

- fire suppression
- emergency medical services
- technical rescue
- auto extrication
- wildland firefighting
- hazardous materials mitigation

KFD training programs are designed and delivered to satisfy industry standards and laws including the Code of Federal Regulations, Washington Administrative Code, and National Fire Protection Agency standards.

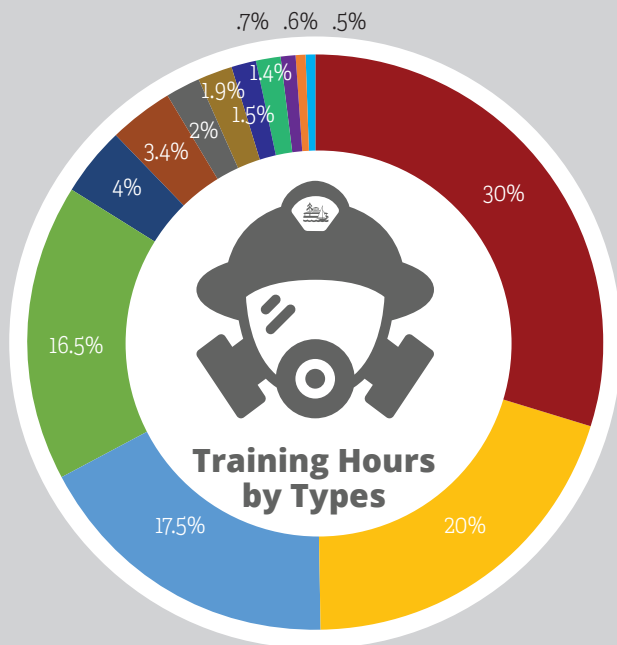
KFD personnel participate in a constant professional development program. Every year firefighters and fire officers are working to attain certifications as Engine and ladder truck drivers, Technical Rescue Technicians, wildland firefighter and rescue swimmer, Acting officers and career development for promotions. Kirkland Fire utilizes veteran firefighters and fire officers to impart their experience to personnel seeking greater knowledge and responsibility.

The ever-evolving character of our City presents new training and equipment needs for our Firefighters. Innovative firefighting, rescue, and EMS techniques must be developed. Our Firefighters must then be trained to accomplish advanced tasks on the emergency scene. Rapid growth of the City of Kirkland has presented new and complex training requirements for the fire department.



ADDITIONAL TRAINING HIGHLIGHTS

TRAINING FACTS



- Probationary Training (30%)
- Incident Command Training (20%)
- Firefighter Suppression (17.5%)
- Emergency Medical Services (16.5%)
- Safety (4%)
- Hazardous Materials (3.4%)
- Vehicle Extrication (2%)
- Technical Rescue (1.9%)
- Physical Fitness (1.5%)
- Driver Engineer (1.4%)
- Personnel Training (0.7%)
- Fire Prevention (0.6%)
- Miscellaneous (0.5%)

**2019 TOTAL
TRAINING HOURS**

11,253



EMS 2019

A majority of the emergency responses in Kirkland, 70 to 75% of all calls, are medical emergencies of various types. All Kirkland Fire Department Firefighters are trained as Emergency Medical Technicians (EMTs). Medical calls in the City of Kirkland are handled by crews in an aid car, fire engine or ladder truck. KFD Firefighters deliver Basic Life Support (BLS) medical care for all types of emergencies. Kirkland Firefighter/EMTs are also trained in advance care techniques such as; use of defibrillation and cardiopulmonary resuscitation (CPR), Stroke identification and care, and the administration of Narcan or Epinephrine. These are just some of the essential skills performed by Kirkland Firefighters.

Patients requiring transport to area hospitals are transported by Kirkland Firefighters. For seriously ill or injured patients, Kirkland Firefighters team with Redmond Paramedics to provide Advanced Life Support (ALS) medical care in route to a hospital.



6649

EMERGENCY MEDICAL RESPONSES



44

CARDIAC ARREST CALLS



160

MOTOR VEHICLE ACCIDENTS



69

STROKE CALLS



68

OVERDOSE CALLS

SPECIAL OPERATIONS

Kirkland Fire Department has four special operations teams. KFD Firefighters participate in Technical Rescue, Hazardous Materials, Wildland Firefighting, and Water Rescue teams. Firefighters on these teams receive advanced training for responses utilizing specialized equipment and techniques.



TECHNICAL RESCUE 2019

The Kirkland fire department currently has 32 members trained to the level of Rescue Technician. These members respond to technical calls within our City and our neighboring departments as part of the Zone 1 Technical Rescue Team (TRT). These members must be trained in Rescue Systems, Machinery Rescue, Vehicle Extrication, and hold a certification in the following disciplines; High and Low angle Rope, Confined Space, and Trench Rescue. They must also meet the continuing educational requirements as called out by the State and Federal overseeing jurisdictions.

The November 25, 2019 crane accident off Lakeview drive, Kirkland, is an example of how our regional response program resulted in a successful outcome.



Eastside Hazardous Materials Response Team



WATER RESCUE 2019

Kirkland's water rescue program consists of firefighters trained in rescue techniques, underwater search methods, and watercraft operations. Each member completes annual training to maintain and improve these skills.

In 2019, KFD responded to 62 water related emergencies. These responses included swimmers in distress, sinking boats, fuels spills, and boat fires.

Kirkland Fire's Water Rescue program continues to be a leader in the State. This year's training sessions were attended by Firefighters from all over Wahington State as well as King County.



2019 TRAINING SYNOPSIS

- Operations Level – All Personnel
- Rescue Swimmers – 60
- Rapid Divers – 32
- WRC Driver Operators - 58



WILDLAND FIREFIGHTERS

Kirkland Firefighters continue to support wildland firefighting efforts across the State. Closer to home, our Firefighters operate as part of the King County wildland response plans. 35 Kirkland Firefighters have completed their initial training. Every year Firefighters complete required continuing training to retain their certifications.



HAZMAT TEAM

As part of a regional Hazardous Material Team in northeast King County, selected members are provided special training to operate as Hazardous Materials Technicians. After initial training, each Firefighter completes annual requirements to maintain their Technician level certification. Kirkland continues to be a leader in regional special operations teams. Hazmat Team members may be asked to provide a variety of services, including:

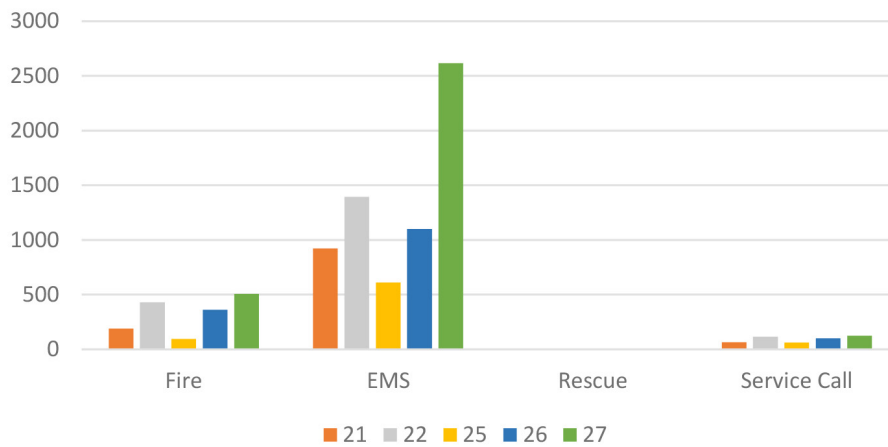
- Product identification
- Hazard Assessment
- Hazardous Chemical Spill control
- Release of biological agents
- Decontamination
- Atmosphere monitoring



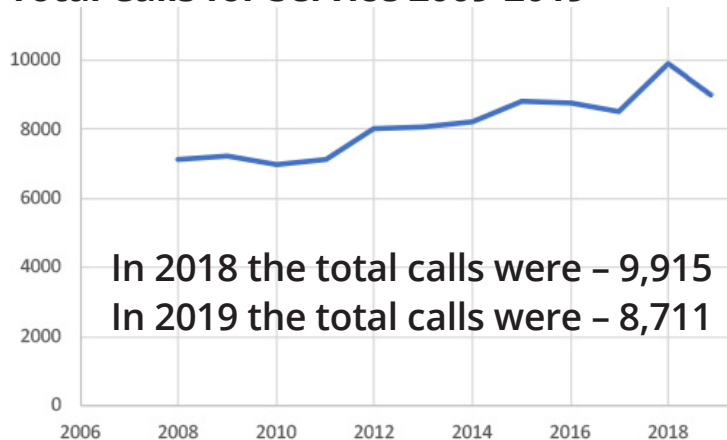
TOTAL CALL LOG

2019 Total Calls for Service

CALL TYPE	STATIONS					Total
	21	22	25	26	27	
Fire	191	430	95	363	506	1,585
EMS	924	1,394	612	1,102	2,617	6,649
Rescue	2	2	*	1	2	7
Service Call	66	116	62	101	125	470
Total	1,183	1,942	769	1,567	3,250	8,711



Total Calls for Service 2009-2019



Automatic Aid Received 2015-2019

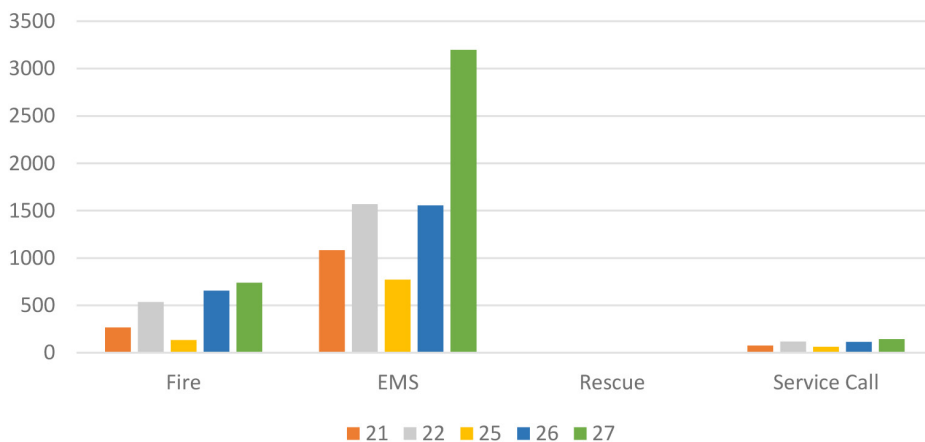
	2015	2016	2017	2018	2019
Bellevue	133	138	157	166	207
Bothell	46	41	40	39	50
Northshore	47	44	45	29	48
Redmond	101	128	92	98	121
Woodinville	78	70	72	73	65
Other	3	7	4	-	2
Medic	1,324	1,582	1,693	1,544	1,632
Total	1,732	2,010	2,103	1,949	2,125

Emergency Response Totals by Unit 2015-2019

	2015	2016	2017	2018	2019
Aid 121	890	951	970	967	986
Aid 122	1,286	1,320	1,182	1,274	1,397
Aid 125	609	606	588	546	601
Aid 126	1,074	1,071	1,120	1,104	1,112
Aid 127	2,223	2,011	1,511	1,633	1,485
Aid 129	483	659	1,105	1,039	1,130
Engine 121	449	460	428	389	445
Engine 122	727	785	755	718	781
Engine 125	214	190	188	340	369
Engine 126	626	652	578	629	667
Engine 127	726	679	642	566	651
Engine 128	7	*	*	11	26
Ladder 127	914	903	460	819	823
Battalion 121	582	642	550	539	550
Battalion 122	*	*	*	*	6
Air Unit 121	38	57	53	36	22
Totals	10,848	10,986	10,130	10,610	11,051

2019 Total Emergency Responses

CALL TYPE	STATIONS					Total
	21	22	25	26	27	
Fire	267	537	134	656	739	2,333
EMS	1,083	1,568	772	1,557	3,199	8,179
Rescue	5	5	*	8	8	26
Service Call	77	116	64	114	142	513
Total	1,432	2,226	970	2,335	4,088	11,051



2019 RESPONSE TIME GOALS AND OBJECTIVES

Seconds Can Make a Difference

Why does the amount of time necessary for the Fire Department to arrive on the scene of a fire or medical emergency matter? Because, time saved can result in lives saved.

Most fires within buildings follow a predictable growth pattern. Once flames appear, a fire growth phenome labeled “flashover” can occur. Flashover can take place in as little as four minutes from the appearance of active fire. Flashover is when the fire gases and all combustible in a room ignite at the same moment. Temperature ate will be above 1200 degrees Fahrenheit. Flashover signals the end of occupant’s survivability in a room and results sin exponential fire spread within the building.

Sudden cardiac arrest, abrupt loss of heart function, is one of the most significant life threaten emergency confront Kirkland Firefighter/EMTs. The time interval between collapse and the arrival of the Fire Department is often the determining factor in survival. For every passing minute between collapse and intervention, chances or a successful resuscitation decrease by 7 to 10 percent.

Fire Department response times are a composite of smaller time segments.

Total response times include:

- Call processing times
- Turnout times
- Travel times

Call processing time is the amount of time needed to gather information from a 911 caller. Turnout time is the amount of time firefighters utilize to don the needed personnel protective equipment and leave the station. Travel time is the amount of time a fire engine or aid car takes to drive to an emergency scene.

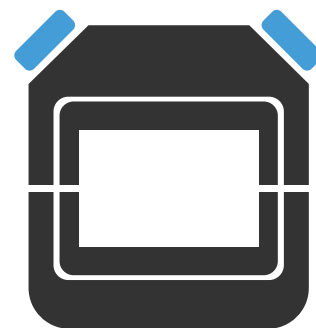
It is important to note that of the three time segments, only turnout times and travel times, can be influenced by your fire department. Station locations, station design, staffing levels and response procedures are implemented to assist KFD in managing total response times.

Turnout times

- Kirkland Fire Department utilizes the Kirkland Fire Department Standards of Coverage and the National Fire Protection Agency (NFPA) standard 1710 as a guiding document for response times.
- Turnout time goals are:
 - 60 second for and EMS responses
 - 80 seconds for a fire and rescue responses

Travel Times

- Kirkland Fire Department utilizes the Kirkland Fire Department Standards of Coverage and the National Fire Protection Agency (NFPA) standard 1710 as a guiding document for response times.
- Travel time is secured from the time the firefighters leave the station until the firefighters arrive at the scene.
 - Kirkland Fire Department strives to maintain four-minute travel times.



2019 Response Data

Kirkland Fire Department Adopted Objective From 911 Dispatch to Arrival On Scene

- **EMS: 5:00 mins** We meet this 61% of emergency incidents.
- **Fire: 5:30 mins** We meet this 55% of emergency incidents.

Actual Total Response Time to EMS 90% of the Time – 7:10 minutes

Actual Total Response Time to Fires 90% of the Time – 7:58 minutes

FIRE Responses Meeting Travel Standard

	All Calls	In Response Area	Out of Response Area
2015	58%	70%	27%
2016	58%	70%	27%
2017	57%	67%	53%
2018	48%	65%	18%
2019	66%	71%	38%

EMS Responses Meeting Travel Standard

	All Calls	In Response Area	Out of Response Area
2015	71%	78%	40%
2016	71%	78%	37%
2017	71%	77%	67%
2018	65%	74%	34%
2019	71%	75%	37%

ADVANCED LIFE SUPPORT (ALS)

Advance Life support (ALS) services are provided to Kirkland through King County Emergency Medical Services (KCEMS). KCEMS provides funding and oversight for paramedic programs in Redmond, Bellevue, Seattle, Shoreline and King County Medic One. Redmond paramedics are the primary ALS providers for the City of Kirkland.

In addition to paramedic responses, Redmond Fire Department provides ongoing training to Kirkland Firefighters/EMTs on topics such as administering approved medications, stroke protocols, diabetic emergencies, and overall medical care for sick or injured patients.

RESPONSE ANALYSIS

EMS Calls Requiring a Medic Response

Incident Year	Call Volume
2019	1,519
2018	1,446
2017	1,601
2016	1,504



Total 2019 EMS Calls Requiring
a Medic Response in Kirkland

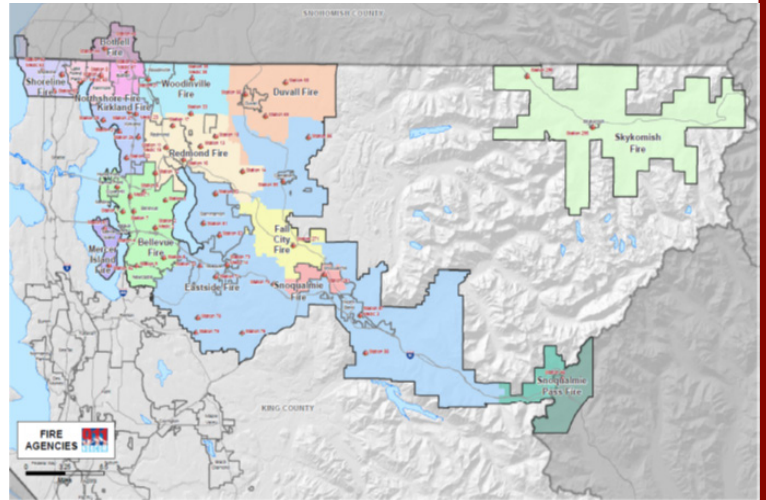
1,519



Norcom 2019 Data

The core mission of the North East King County Regional Public Safety Communication Agency (NORCOM) is to provide high quality emergency service communication to the public for emergency medical services, fire and police. We will carry out this mission by receiving calls for service; dispatching resources in response to such calls; tracking and coordinating information flow and resources to assist responders; initiating records for all emergency events; and enhancing effectiveness, efficiency, coordination and interoperability of emergency service providers.

www.norcom.org



- The City of Kirkland is represented on the executive board of NORCOM by the City Manager.
- Kirkland police and fire serve on the NORCOM operations board.
- In 2019 NORCOM received a total of 96,589 non-emergency calls for services and 175,923 emergency calls for service.

NORCOM dispatch 2019 Performance Measures:

90% of 9-1-1 telephone calls will be answered within 10 seconds or less (barring major disasters or other extraordinary events)

- NORCOM answered 911 calls within 10 seconds or less 98.00% of the time in 2019

GOAL: 90% of emergency Fire/Medical (EMS) calls are dispatched within 60 seconds.
NORCOM processes Fire/EMS calls in under 60 seconds 82% of the time.

COMMUNITY RISK REDUCTION



FIRE PREVENTION BUREAU

The Kirkland Fire Prevention Bureau contributes to the safety of those who live, work and play in Kirkland through five primary fire-prevention functions:

- New-construction plan review and inspection
- Existing-building inspection and operational permits
- Fire investigation
- Local Code and Policy development
- Fire safety education

The Prevention Bureau currently has staffing of 6-1/2 members. Staff include the Fire Marshal, Assistant Fire Marshal, four Fire Inspector/Investigators and a half-time office specialist.

Fire Plan Review of New Construction

Fire Prevention personnel review plans to confirm compliance with the International Fire and Building Codes, applicable local codes, ordinances, standards and regulations. This includes review of

building sites for adequate fire department access, hydrant locations, adequate firefighting water supply, and proposed location of connections for firefighting systems. Furthermore, at this stage of review, fire protection systems are identified as required to be installed as a structure is completed. These include fire sprinkler systems, fire alarm systems, smoke control systems, and in-building emergency-responder-radio systems. Fire Prevention personnel work closely with the Kirkland Building Services Division, as well as other City Departments, to ensure comprehensive and consistent enforcement of the International Codes and the Kirkland Municipal Code.

Year	Plan review SFR* new and additions	Plan Review Commercial	Plan Review Grading (LSM)	Plan Review Short Plats
2015	438	39	57	58
2016	452	41	79	123
2017	454	18	69	31
2018	448	106	62	43
2019	430	151	68	41
Year	Plan Review Zoning and Design	Plan Review Mechanical	Pre application conferences	Solar (PV)
2015	10	3	170	38
2016	12	2	173	3
2017	8	1	156	4
2018	15	2	161	1
2019	18	5	115	2

*SFR: Single-Family Residential

FIRE PREVENTION BUREAU

Fire Inspections of New Construction

Once permits are issued, Fire Prevention personnel perform inspections to ensure that the required fire protection features are installed correctly and as designed. Just as during the plan review process, we work cooperatively with Development Services Divisions from other City departments such as Planning and Building, and Public Works to ensure a seamless inspection and permit process for developers and contractors.

Year	Fire system Permits issued	Fire Protection System Inspections	IFC Permits issued	IFC Inspections
2015	283	1966	48	91
2016	345	1193	65	87
2017	333	2034	48	71
2018	376	2418	49	39
2019	552	3412	85	116

Issuance of Operational (IFC) Permits

Some types of use, storage or activities have extra potential to create risk in the community. To manage and reduce this additional risk, conditions and special rules for these hazardous operations are defined and memorialized in the form of an operational permit. Commonly issued operational permits are for fireworks displays, hazardous materials, large commercial tents, bonfires, hot work and a variety of other hazardous activities.

Annual Fire Safety Inspection Program

Fire Prevention personnel are responsible for managing the annual fire safety inspection program. Occupancies in the City receive a fire and life safety inspection annually. Citizens will often see their firefighters around Kirkland conducting inspections. Firefighters focus on discovering and correcting conditions likely to cause a fire or life safety hazard. In 2016, Prevention paused normal inspections procedures to purchase and install new inspection software. The new software allows firefighters to more accurately track completed inspections, occupancy contact information and required corrections. With the efficiencies gained by implementing new software, our firefighters have been able to complete inspections faster and eliminate redundancy. Throughout 2019, our crews have built on the success of 2017 and 2018. By the end of 2019 fire crews had completed 765 fire and life safety inspections. This represents more than 80% of the inspections completed in earlier years due to consolidation of buildings into complexes under one owner.

Year	Company Level Fire inspections	Company Officer Investigations reviewed	Investigator reports
2015	1164	115	48
2016	0	131	22
2017	0	127	18
2018	94	126	21
2019	765	131	16

Fire Investigations

The Fire Prevention Bureau is mandated to conduct fire investigations to determine the origin and cause of all fires which occur within the City of Kirkland. Fire Investigators work closely with the Kirkland Police Department if a fire is suspicious or is determined to be arson.

All investigators are trained to national standards, attending the National Fire Academy in Emmitsburg, Maryland, gaining certification through the Washington State Patrol, and from the International Association of Arson Investigators (IAAI). Kirkland is an active member of Zone 1 Fire Investigators and Zone 1 Fire Marshals.

Code and Policy Development and Publication

The Fire Marshal is responsible for developing and publishing policies related to established fire prevention goals. These policies are technical in nature and geared towards assisting developers and contractors in site and system design. In addition, the Fire Marshal is responsible for code and policy interpretations. The Fire Marshal also coordinates with Fire Marshals in neighboring jurisdictions so that, as much as possible, code interpretations and requirements are standardized throughout the region.

GOALS for the Future

- An independent review of the department highlighted the value of routine fire and life safety inspections in businesses and hazardous occupancies. Goal: Meet recognized inspection frequency standards.
- Continue to support sprinklers in single-family homes through education and cooperation with developers and builders.
- In 2010, funding was cut to several educational programs. Goal: Hire a public educator to develop, support, and manage a city-wide fire and life safety campaign.



OFFICE OF EMERGENCY MANAGEMENT



2019 was a year of focus for Emergency Management. Staff and volunteers worked together to move towards the goal of a professional, sustainable, and purposeful emergency management program. Efforts included enhancing and supporting City and community training, building the skills of our volunteers, and increasing City capability to respond to and recover from a disaster. Emergency management strives to be proactive and engaging while supporting the City and the communities we serve.

Community Emergency Management Programs include:

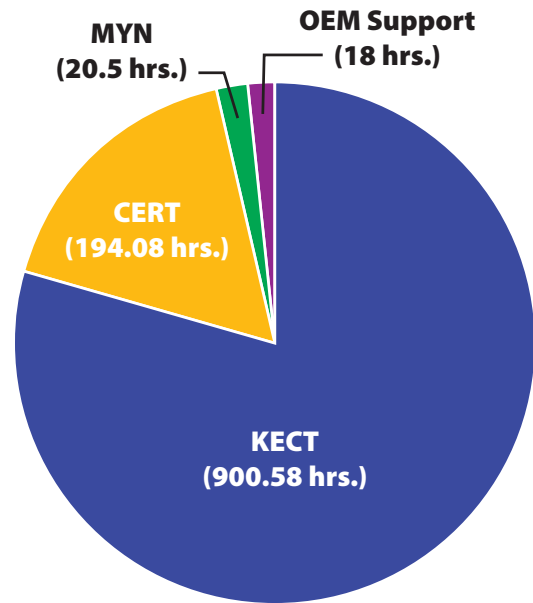
- Kirkland Emergency Communications Team (KECT)
- Community Emergency Response Training (CERT)
- Map Your Neighborhood (MYN)

In 2019, 48 community members participated in the Community Emergency Response Training (CERT) program and Emergency Management hosted the inaugural 'CERT Rodeo' providing an opportunity for previous CERT graduates to refresh their skills.

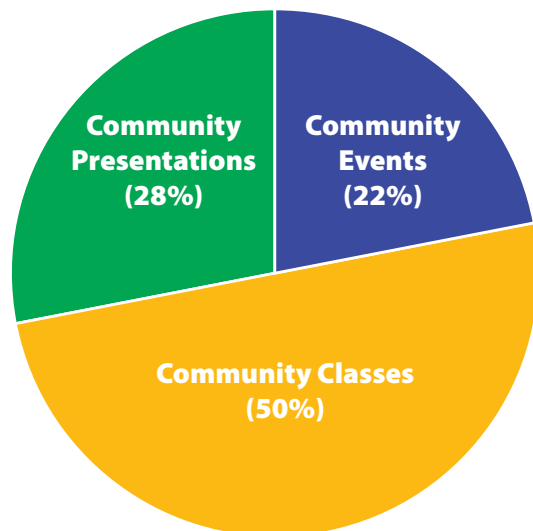
Emergency Management Partnered with the Kirkland Chamber of Commerce to facilitate 'Biz Prep' seminar. The event shared lessons learned from the Bothell Downtown Fire and facilitated a panel discussion about how businesses, big and small, can prepare for and recover from emergencies and disasters.



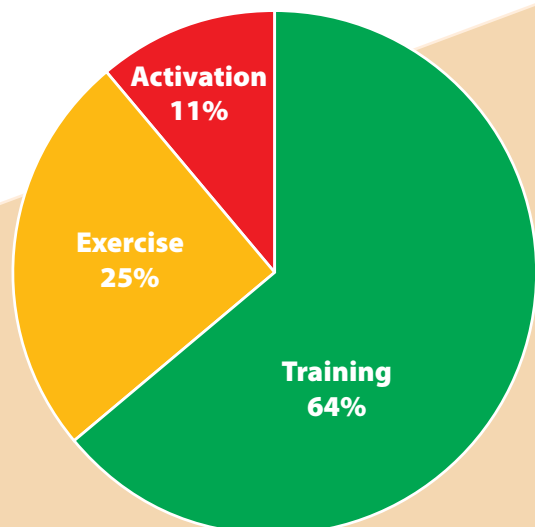
Volunteer Hours by Program Area



Public Outreach Activities



Emergency Operations Readiness Activities



DEPARTMENT DIRECTORY 2019

GENERAL INFORMATION 425-587-3650

Headquarters - 123 Fifth Avenue, Kirkland 98033

Fire Administration

Joe Sanford, Fire Chief	425-587-3602
Tim Day, Deputy Chief	425-587-3601
Dave Van Valkenburg, Deputy Chief.....	425-587-3605
Joel Bodenman, EMS Captain.....	425-587-3663
Audrey Martin, Administrative Services Supervisor.....	425-587-3658
Anna Grimes, Administrative Assistant	425-587-3641
Jim Fink, Mechanic	425-587-3880

Fire Prevention

Mark Jung, Battalion Chief/Fire Marshal	425-587-3623
Grace Steuart, Assistant Fire Marshal.....	425-587-3660
Jason Chappell, Captain/Assistant Fire Marshal	425-587-3655
Cory Caulk, Lieutenant/Fire Inspector	425-587-3657
Todd Anderson, Fire Inspector.....	425-587-3639
Renee Lirette, Fire Inspector.....	425-587-3653
Teri Wallace, Office Specialist.....	425-587-3634

Training

Bill Hoover, Battalion Chief	425-587-3698
Marc Hallen, Captain.....	425-587-3697
Megan Hicks, Office Specialist	425-587-3638

Office of Emergency Management

Heather Kelly, Emergency Manager	425-587-3670
Karissa Smith, Emergency Preparedness Coordinator	425-587-3691

2020 PLAN OF ACTION

- Collaborate with City staff and Community Advisory Safety Group to place a 2020 bond measure.
- Establish a Mobile Integrated Health program withing the City of Kirkland.
- Initiate construction of Station 24 in May 2020.
- Evaluate and purchase new automatic defibrillation units for Fire and Police response vehicles.
- Expand engine company inspection program to include small business and multi-family occupancies in the City.
- Design and build training prop at Station 26 in support of improved training opportunities within city limits.
- Developed the 2021-2022 Capital and Operational budgets.
- Build a stockpile of pandemic personnel protective equipment for the Department
- Continue to support public outreach and education programs in our community.





CITY OF KIRKLAND
FIRE DEPARTMENT