SCIFR

Current State of Fire & EMS in Santa Clara Ivins 2022

& Vision 2030

Presented By: Andrew J. Parker Fire Chief

Deployment, Staffing & Response Requirements

UTAH EMS

- 1 Ambulance
  - 2 Personnel:
    - 1 Paramedic/FF
    - 1 EMT-A or B
  - This is a State of Utah EMS Requirement R426-4-200
  - Mutual Aid Agreement

ISO & NFPA 1710 (Company Personnel)

- 1 Fire Truck (Structure or Brush)
  - 3 Personnel:
    - 1 Supervisor
    - 1 Engineer Pump Operator
    - 1 FF/PM or FF/EMT
  - This is a NFPA 1710 Requirement (*4)
  - OSHA 29CFR 1910.134(g)(4)

Fire Service 3-5 Person Teams Response

- Concentrated, Coordinated and Effective

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1710 Teams Models Response

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Deployment, Staffing & Response ISO Rating

Current ISO Deployment Rating:

4.66 out of 10 points

Current ISO Staffing Rating:

4.44 out of 15 points

“This items examines the number and adequacy of existing engine and ladder-service companies to cover built-upon areas of the city; and existing firefighters and company officer available to respond” (ISO)

*3 Volunteer or Part Time = 1 Full Time

Station Status of Rachel Drive S.C.

Summer 21-FEB 2022

EMS Response Limited Fire

- Rachel Drive: (2) personnel 90% and (1) additional 50% of the time (2 Full & 1 Part Time)
  - 1 Type I Fire engine that was not medically certified (2017)
  - 1 Fire engine that was not medically certified (1996)
  - 2 Ambulances (2015 & 2000)
  - 1 Razor UTV (2016)
  - 1 F150 A-EMT Pick-Up Truck
  - 1 Type 6 (2004)

FEB 2022-MAY 2022

Fire & EMS Response

- Rachel Drive: (4) personnel 75% and (1) additional 10% of the time (3 Full Time & 2 Part Time)
  - 1 Type I Fire engine that is Advanced EMT medically certified (2017)
  - 1 Wildland Fire Engine (2007)
  - 1 Paramedic Ambulance (2015)
  - 1 Razor UTV (2016)
  - 1 Wildland Water Tender (2005)

Staffing & Response Timeline Since Fall 2021

- Fall 2021 (2) personnel on duty at the Rachel Station staffed (1) ambulance.
- 50% of the time there was a 3rd person on duty who staffed a Ford F150 pick-up truck that was outfitted with advanced level EMT medical gear, with no fire suppression capability.
- For the last 8 years, the State has granted our Paramedic ambulance to be staffed with advanced level EMT's due to limited Paramedic employees (3) on roster.
- SCIFR provided medical coverage 90% of the time and 10% fire coverage. If a fire call came in, the ambulance would respond and arrive on scene until the fire engine could arrive. Personnel arriving on the fire engine would respond from home delaying response.
- As of July 1st 2022, we will have (5) personnel on duty 24/7/365. (3) on a fire engine/Fire Response (2) on the ambulance /EMS Response.
- It will take (9) full time and (12) scheduled part-time employees and (12) float part-time employees to accomplish this (33 employees).

SPECIAL QUALIFICATIONS: HazMat * // Paramedic ** //ADO # // FO1 +// Eng. Boss^//ADO AERIAL%//Inspector1= EFFECTIVE DATE: 6/30/22

Station 31
2365 Rachel Dr., Santa Clara, 84765
Station Telephone: (435) 656-0805

Cross Staffed Equipment:
Brush Engine 31
Water Tender 31
Chase 31
UTV 31

UNIT ASSGN.	SHIFT	"A" SHIFT		"B" SHIFT		"C" SHIFT	
ENGINE 31	48/96	Capt.	Monahan#+^	Capt.	Hansen#+^	Capt.	Runolfson*#+^
	48/96	Eng.	Youngberg#+%=	Eng.	Hill**#+	Eng.	Taschuk**#+
	48/96	FF/PM	Benoit**	FF/PM	Costello**	FF/PM	Moore**

UNIT ASSGN.		"A" SHIFT		SHIFT	"B" SHIFT		SHIFT	"C" SHIFT		SHIFT
MEDIC 31	24/120	FF/AEMT	Tidwell	A	FF/AEMT	Skidmore	B	FF	Rademacher	C
	24/120	FF/EMT-B	Merhav	A	FF/AEMT	Pajoa	B	FF/AEMT	Harward#	C
	24/120	FF/AEMT	Skinner	AA	FF/AEMT	Ickes	BB	FF/AEMT	Zitting	CC
	24/120	FF/AEMT	**Vacancy**	AA	FF/AEMT	**Vacancy**	BB	FF/AEMT	**Vacancy**	CC

Station 32
90 W Center St., Ivins, 84738
Station Telephone: (435) 674-5503

Response Equipment:
Brush Engine 32
Brush Patrol 32

	"A" SHIFT RESERVES		"B" SHIFT RESERVES		"C" SHIFT RESERVES	
Engine 32	FF/AEMT	Bowler#%	FF/AEMT	Jessop	FF/PM	Crocket
	FF/AEMT	Holman	FF/AEMT	Dean	FF/AEMT	Kujawa
Medic 32	FF/AEMT	Miller	FF/AEMT	Hurt	FF/AEMT	Pauling
	AEMT	Oliphant	FF/AEMT	Sullivan	PM	Johnson

UNIT ASSIGN.	SHIFT	ADMIN.	
CHIEF 31	M TU W TH 0700-1700	Chief	Parker
BATTALION 31	M TU W TH F 0700-1500	B/C	Fulde #+=%^
UTILITY 31	M TU W TH 0700-1300 F 0700-1200	M/O	Haynie #

Volunteer Staff

Part Time Capt. / AEMT Preston#+

FF/AEMT	Jon Ward	FF/AEMT	Greg Leavitt
FF/AEMT	Tiffany Martineau	FF	Gino Christian
FF	Scott Whitehead	FF	Scott Galbraith%
FF	Paul Andrews	FF	Bob Greely

Staion 33
2875 Circle Dr., Santa Clara, 84765

Reserve Equipment:
Medic 33
Parade 33

Asst. Tobi Morwood

Station Status of Center Street Ivins

- 2018-Summer of 2021
- Center Street: Personnel
  - 1 Fire engine that was not medically certified (2017)
  - 2 Paramedic Ambulances (1995, 2015)
  - 1 Brush Engine (2000)
  - 1 ladder Engine (2001)
  - 1 F150 A-EMT Pick-Up Truck

- March 2021-May 2022
- Wildlands Fire Station
- Center Street: (1) Fire Chief PM (1) Battalion Chief AEMT (1) Management Officer/Fire Engineer– part-time
  - 1 Fire Engine - Medically Certified AEMT (1996)
  - 1 Paramedic Ambulance (2000)
  - 1 Wildland Brush Engine (2005)
  - 1 Wildland Brush Truck (2016)
  - 1 Battalion Chief F-150 Command (2013)
  - 1 Chief Command Tahoe (2019)
  - 1 Utility Pick-up (2006)

Staffing & Response Timeline Since Summer 2021 - February 2022

- February (0) personnel on duty at the Ivins Station.
- March 1st, 2022, the Fire Chief who is a Paramedic, the Battalion Chief who is an Advanced EMT and the Fire Management Officer, who is a pump certified driver, were moved to the Ivins station.
- Personnel staff the station 0700-1700 M-TH and Friday 0700-1300
- In the event of a critical incident such as a cardiac arrest, the Battalion Chief has been responding to assist crews.
- In the event of a fire, all 3 personnel respond to the scene. The Management Officer will drive a fire engine if required.
- Our 8 Volunteers maintain equipment and respond from this station under the direction of our Part Time Fire Captain.
- We were unsuccessful in recruiting for our seasonal wildland crew this year.

Station Status as of Circle Street S.C.

2018-MARCH 2022

Wildlands Station

- Circle Street: (5) Personnel Seasonal *M-TH 7-5
  - 1 Wildland Brush Truck (2016)
  - 1 Wildland Brush Engine (2005)

MARCH 2022-May 2022

Station is Not in Service

- Circle Street: (0) Personnel
  - 1 Paramedic Ambulance (1995)
  - 1 Parade Truck

Staffing & Response Timeline Since 2018

2018 (0) personnel on duty at the Circle Street, however this was used as a meeting location for our traditional seasonal wildland crew.

This station has no personnel assigned and is used to store a special event ambulance and parade truck.

Problem, Solution, End State Analysis

Problem – No full time EMS and Fire Crews at the Ivins Station

Solution #1 – Move the ambulance crew to the station during day operations until accommodations can be made to house the crew. Crews can cross staff equipment for fire calls if they are not on a medical call. Personnel Cost: $0

Solution #2- Hire a second ambulance crew with (12) part-time staff who can be housed at the station 24/7/365. Personnel Cost: $290,000

Solution #3 – Hire a second ambulance crew as in option 2 and (3) full time supervisors for a limited fire response. Personnel Cost: $290,000+$330,000=$620,000.

Solution #4- (Vision 2030) Hire a second ambulance crew and (9) full time personnel to match the Rachel Station. Personnel Cost: $290,000+$990,000= $1.28MIL

Ladder Problem, Solution, End State Analysis

- Current ISO for Ladder: 1.65 points out of 4 points
- Based on 1710: Ladder required for 3 stories or 35’ or more
- Need for ladder rescue due to “off-set scape”

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : Canyon Suites at Tuacahn, 1100 Tuacahn Drive

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : Crimson Cliffs Residences, 95N 400East

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : Rocky Vista University, 255 East Center.

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : Movara Fitness, 290 S Fitness Way.

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : Red Mountain Resort, 1275 Red Mountain.

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : Lava Ridge Intermediate, 2425 Rachel.

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : Harmons, 3520 Pioneer Pkwy.

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : S.C. City Hall, 2603 Santa Clara.

Problem, Solution, End State Analysis

- Buildings that require a ladder truck to rescue victims if trapped in the upper floors & access roofs for HVAC fire and ventilation : LDS Church, 3816 Rachel.

Current Elevated Stream Engine
“Not an adequate Ladder”

Quint/Squirt

- 55-61’ Ladder
- Considerations
  - Wear and Tear From Ladder on Cab
  - Not Designed for Rescue
  - No Hoist Lift
  - Water Way and Pump Maint.
  - Compartment Space

Ladder Trucks Styles

Platform

- 75-107’ Ladder
- Considerations
  - Heavy
  - Maneuverability
  - Hard on brakes/tires
  - Basket Difficult for Rescue
  - Difficult Hoist Lift
  - Water Way and Pump Maint.
  - Acceleration / Braking

Ladder Trucks Styles

TDA Quint

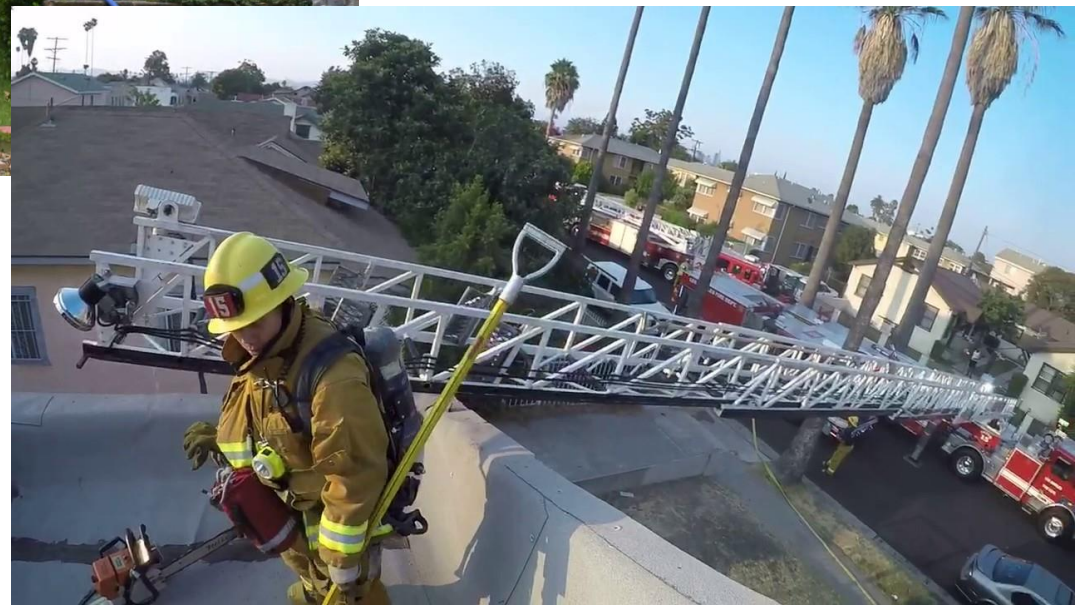
- 100-110’ Ladder
- Considerations
  - Heavy
  - Water Way and Pump Maint.
  - Acceleration / Braking (water tank /weight)
  - More Compartment Space

Ladder Trucks Styles

TDA

- 100-110’ Ladder
- Considerations:
  - Hoist Capable
  - No Water Tank
  - Maneuverable (Jack-knife)
  - Less weight
  - No Pump
  - Easy Rescue
  - More Compartment Space

Ladder Truck Capabilities



Engine Problem, Solution, End State Analysis

- Current ISO for Engine Co: 2.97 points out of 6 points
- Based on 1710: 4 Engines in service and (2) to provide a first alarm response 24/7/365

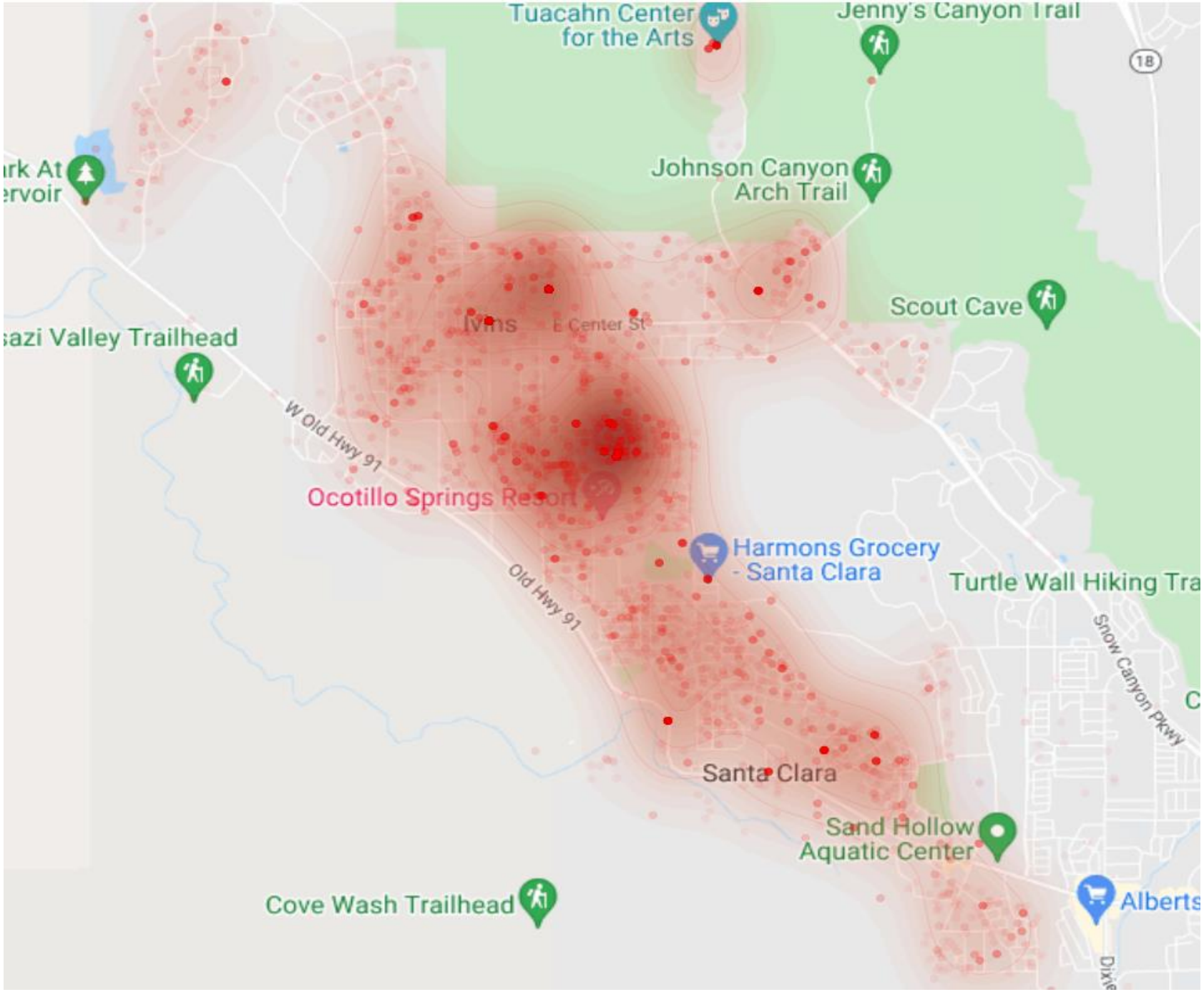
Response Times

- Regarding the response to the 300 South Main Fire:
- Engine 31 was paged at 2:10PM and arrived 2:16PM.
- The NFPA (National Fire Protection Association) Standard 1710 establishes a 9 minute and 20 seconds response time, which we are well within.
- B/C 31 arrived at 2:14PM, Medic 31 arrived at 2:16PM, and Utility 31 arrived at 2:16PM.
- Volunteers later arrived, for a total staffing of ten certified firefighting personnel.

Response Times

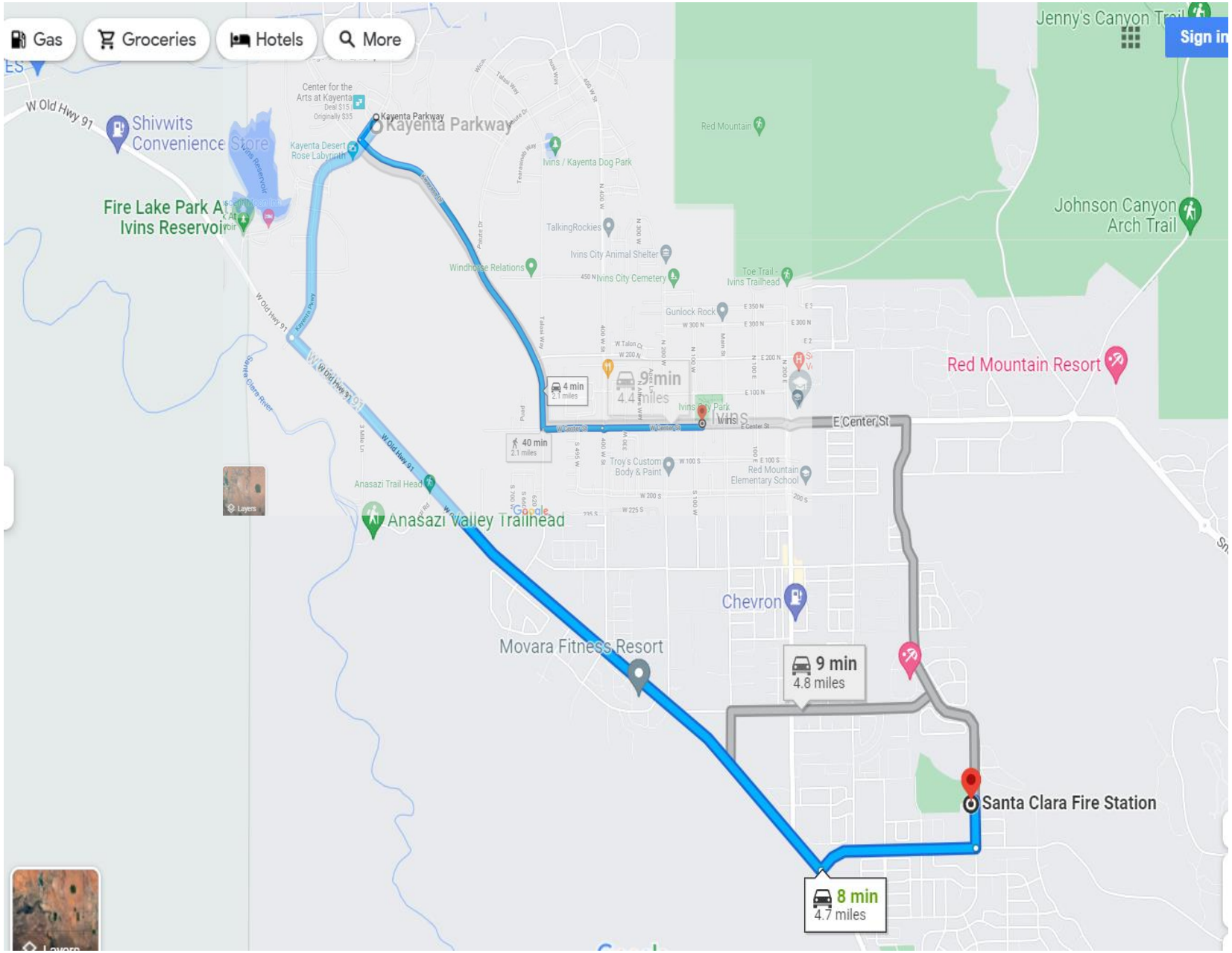
- Our average response time to Ivins incidents since the 2018 merger is 6 minutes and 18 seconds.
- The average response time to Santa Clara incidents in the same time period is 6 minutes 44 seconds.
- The rational for the 2365 Rachel Drive (Station 31) station as being the current manned station is based on fact-based analysis and what provides the best response for the citizens of both Santa Clara & Ivins within confines of budget.
- Our response times to both cities are almost identical, and this is by design with response times well under the industry standard.
- Prior to the merger, both departments response to fires were volunteer only. The average response time to a structure fire for Ivins City Fire Department was 7 minutes 26 seconds; and the Santa Clara Fire Department was 7 minutes 5 seconds.
- We have already vastly improved our response times as a result of the merger

Two Year Period
All Calls

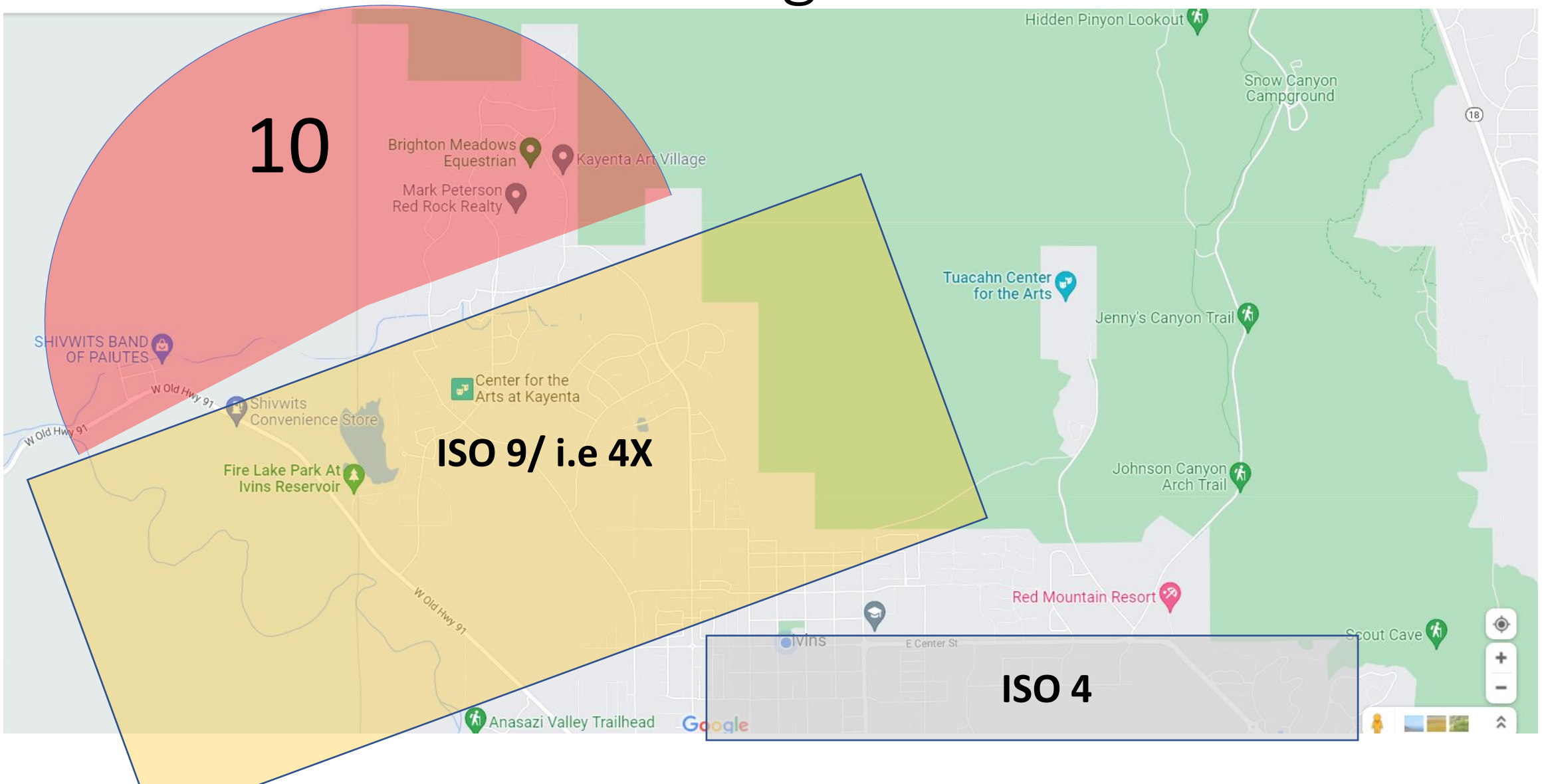


Response Times are Extended to Kayenta From Rachel vs. Center

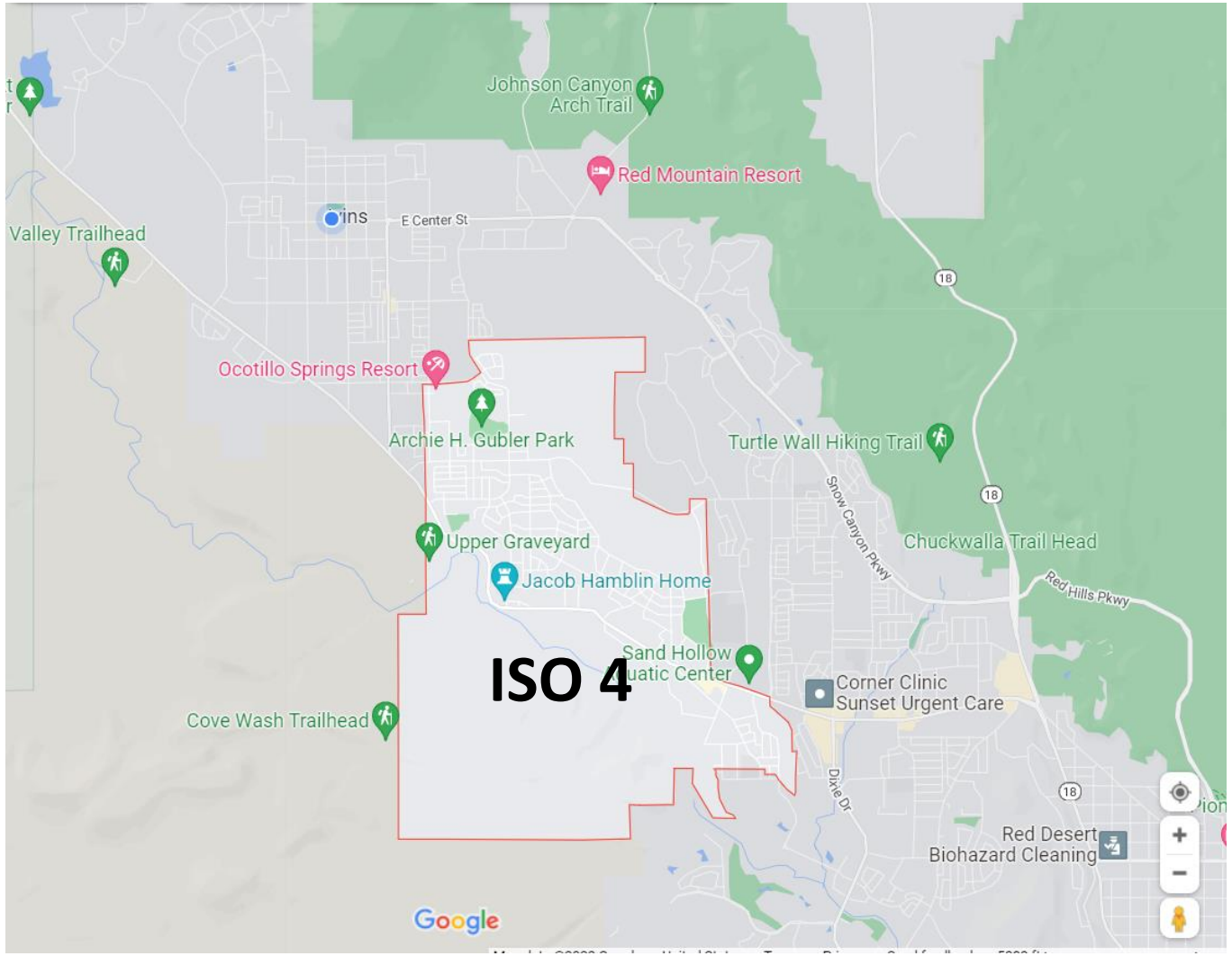
Rachel 4.7mi (8min)
Center 2.1mi (4min)



ISO Rating Ivins



ISO Rating Santa Clara

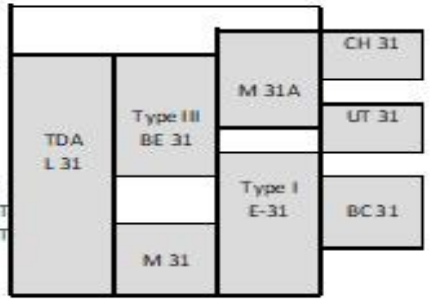


Santa Clara Ivins - Fire Rescue 2030

SANTA CLARA STATION 31 "DOWNTOWN"
(2-Story) 3-Bay Design/Administration

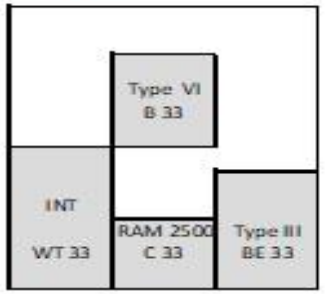
24/7/365 CREW
FT STAFF
1-Capt
1-Eng
1-FFPM

PT STAFF
1-FFAEMT
1-FFAEMT



SANTA CLARA STATION 33 "RACHEL WILDLAND/TRAINING/EOC"
(1 Story) 3-Bay Existing

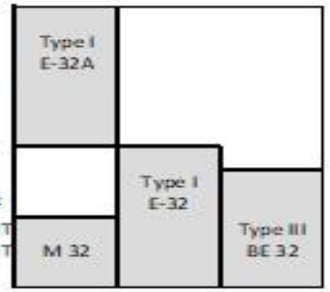
Seasonal 24/7/365 CREW
PT STAFF
1-FF
1-FF
1-FF
1-FF
1-FF



24/7/365 CREW
IVINS STATION 32 "DOWNTOWN"
(1-Story) 3-BAY Design Station

24/7/365 CREW
FT STAFF
1-Capt
1-Eng
1-FFPM

PT STAFF
1-FFAEMT
1-FFAEMT



Deployment, Staffing & Response ISO Rating 2030

ISO Rating 3
For both
Santa Clara Ivins