

Kendal Fire Station
Risk Based Evidence Profile 2018
Risk Review



**Prepared by Cumbria County Council
Performance and Intelligence Team**

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Introduction

This document forms part of the Risk-Based Evidence Profile 2018 (RBEP 2018). The RBEP 2018 is comprised of a 'core' document profiling risk and demand across the county, and 38 individual station profiles (of which this is one).

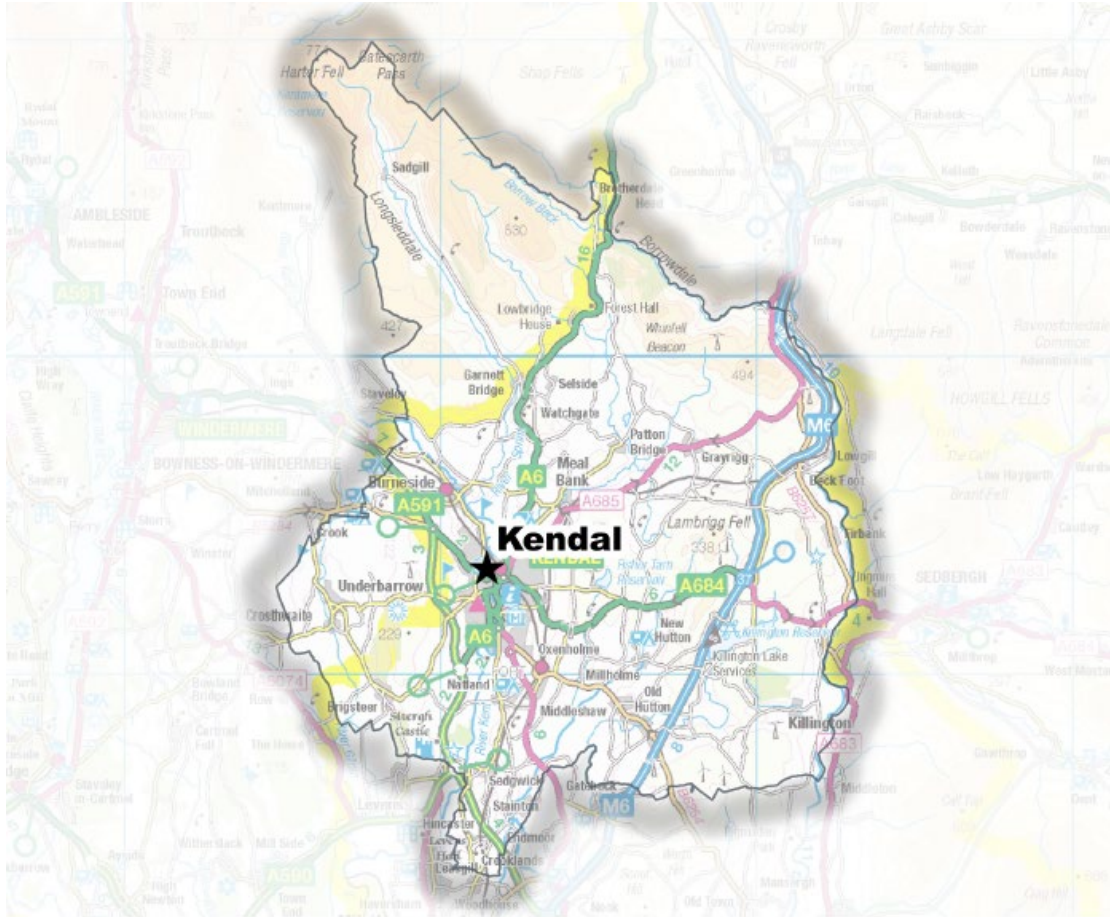
The RBEP 2018 is developed to support the Integrated Risk Management Plan (IRMP) 2019-23. The purpose of the IRMP 19-23 is to identify and assess fire and rescue related risks for the next four years, and set out what the service is going to do to address them.

Each station profile details the station area and its available resources, alongside the demand and risk for that station. Prevention and protection activities are also provided to evaluate the scope of mitigating actions that have been taken to address high priority risks.

Horizon scanning is conducted to identify any significant infrastructure, economic and housing developments which need to be taken into account for future service provision.

Station Area and Resources

The fire station is situated in Kendal. A map of the 'station area'¹ is shown below. The station in 17/18 was crewed by 16 firefighters working the On-call duty system and 12 regular firefighters.



Station Area	35,000 population
Crewing Type	Day-Crewed (8am-8pm) and On-call
Fire Engines	2 fire engines, 1 High volume pump and boat

The following table indicates the travel distance in miles from Kendal Fire Station to the next nearest three fire stations.

Station Name	Distance by Road (MILES)
Staveley	4 miles
Milnthorpe	8 miles
Windermere	8 miles

¹ This is a nominal area which distributes the county across its 38 stations for the purposes of management and performance benchmarking.

Fire Engine Availability

During 2017/18 the Kendal Day-crewed fire engine had been off duty for 0.24% of the time.

C60P1 (Day-crewed)	2015/16	2016/17	2017/18
Total Availability	100%	99.97%	99.76%
Mon - Fri (08:00 - 18:00)	100%	100%	91.1%
Mon - Thurs (18:00 - 08:00)	100%	99.97%	99.88%
Fri - Mon (18:00 - 08:00)	100%	99.94%	99.46%

During 2017/18 the Kendal On-call fire engine had been off duty for 28.33% of the time.

C60P2 (On-call)	2015/16	2016/17	2017/18
Total Availability	99.91%	83.03%	71.67%
Mon - Fri (08:00 - 18:00)	94.81%	92.05%	91.1%
Mon - Thurs (18:00 - 08:00)	97.92%	86.31%	72.22%
Fri - Mon (18:00 - 08:00)	94.41%	72.85%	55.63%

Station Fire Engine Response Times

Kendal Day-crewed and On-call fire engines have been called to the following number of incidents over the last three years with the associated response times. Some of the incidents attended may have been in neighbouring station areas.

Between 2015/16 and 2017/18 the Kendal Day-crewed fire engine (C60P1) had the following response times below.

C60P1 (Day-crewed)	2015/16	2016/17	2017/18
Average crew turnout time (time it takes the crew to respond to the station)	2 mins 14 secs	2 mins 37 secs	2 mins 44 secs
Average response time (time it takes the crew to arrive at the incident from the station)	5 mins 13 secs	7 mins 23 secs	8 mins 14 secs
Number of incidents attended by fire engine C60P1	388	310	317

Between 2015/16 and 2017/18 the Kendal On-call fire engine (C60P2) had the following response times below.

C60P2 (On-call)	2015/16	2016/17	2017/18
Average crew turnout time (time it takes the crew to respond to the station)	4 mins 51 secs	5 mins 43 secs	5 mins 59 secs
Average response time (time it takes the crew to arrive at the incident from the station)	4 mins 57 secs	8 mins 16 secs	8 mins 30 secs
Number of incidents attended by fire engine C60P1	106	83	63

Station Area Response Priorities

A 3 year profile of demand within the station area, with associated number of fatalities and seriously injured casualties, is detailed in the table below.

Table 1: Prevention, Protection and Response Priorities: Kendal

Fire, Rescue and Road Safety Priorities 2018/19	Incidents			Fatalities				Seriously Injured Casualties				PRIORITY	2017/18 compared to 3yr average ³
	2015/16	2016/17	2017/18	2015/16	2016/17	2017/18	Average per 100 incidents	2015/16	2016/17	2017/18	Average per 100 incidents		
All incidents	393	300	287	4	1	2	0.7	7	7	7	2.1	n/a	↓
Injury Road Traffic Collisions ¹	8	7	11	2	-	1	11.5	4	4	6	53.8	Very High	↑
Primary Fires ²	26	39	37	2	1	-	2.9	1	-	-	1.0	Very High	↑
Flooding and water incidents	41	7	3	-	-	-	0.0	-	-	-	0.0	High	↓
Gas incl Carbon Monoxide	1	1	3	-	-	-	0.0	-	-	-	0.0	Medium	↑
Automatic Fire Alarms	232	174	158	-	-	-	0.0	-	-	-	0.0	Standard	↓
Wildfires ⁴	-	-	-	-	-	-	0.0	-	-	-	0.0	Standard	↔
Animal Assistance Incidents	3	4	3	-	-	-	0.0	-	-	-	0.0	Standard	↓

↔ = No Difference +/-5% ↑ = Higher ↓ = Lower

¹Injury Road Traffic Collisions include RTCs attended by CFRS where there was a fatality or a rescue with injury

²Primary fires include all fires in buildings, vehicles and outdoor structures or any fire involving casualties, rescues or fires attended by five or more appliances

³Increase or decrease if greater than 5% of three year average

⁴Wildfire is defined as any uncontrolled vegetation fire which requires a decision, or action, regarding suppression, plus any one of the following criteria (i) involves a geographical area of greater than 1 hectare (ii) has a sustained flame length of 1.m (iii) requires a committed resource of 4 or more appliances (iv) requires resources to be committed for over 6 hours (v) presents a serious threat to life, environment, property and infrastructure

Primary Fire Response Profile

Incident and Risk Profile

In 2017/18, there were 287 incidents within Kendal Fire Station area with 2. This included 11 Injury RTCs, 37 primary fires and 3 flooding and water incidents.

CFRS Risk Profile identifies the levels of risk within an area (Lower Super Output Area²) of incident types occurring – this is based on the likelihood of an incident occurring and also on the likelihood of that incident being of a life-threatening or serious nature. Full details of the risk model calculations used are in Appendix B of RBEP 2018.

The fire risk model shows decreasing fire risk for Kendal Fire Station with no high level risk LSOAs, and overall risk score decreasing from 416 in 2014/15 to 392 in 2018/19, a decrease of 6%.

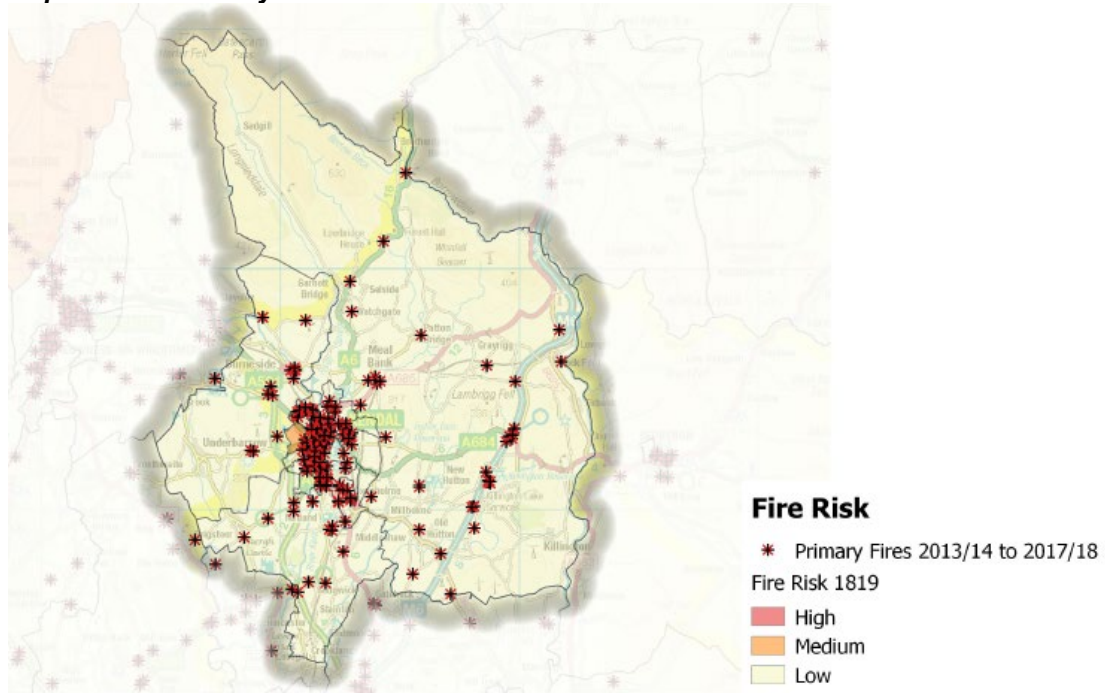
Table 2: 18/19 Primary Fire Risk – Kendal

Kendal Risk Profile		Incidents 2009/10 - 13/14		Incidents 2010/11 - 14/15		Incidents 2011/12 - 15/16		Incidents 2012/13 - 16/17		Incidents 2013/14 - 17/18	
		2014/15 Risk		2015/16 Risk		2016/17 Risk		2017/18 Risk		2018/19 Risk	
Score	Risk Grade	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs
>=76	High	0	0	0	0	0	0	0	0	0	0
35- 75	Medium	84	2	156	4	42	1	72	2	36	1
<=34	Low	332	15	252	13	360	16	332	15	356	16
TOTAL		416	17	408	17	402	17	404	17	392	17

The map of Fire Risk below shows levels of Fire Risk by LSOA, with the last 5 years of primary fire incidents clustering within Kendal town centre.

² Lower Super Output Areas are geographic areas created by the [Office for National Statistics](https://www.ons.gov.uk/methodologies/lsos) to support statistical analysis at a more detailed geographical level . Each LSOA is designed to have similar population sizes of up to 1,200 households.

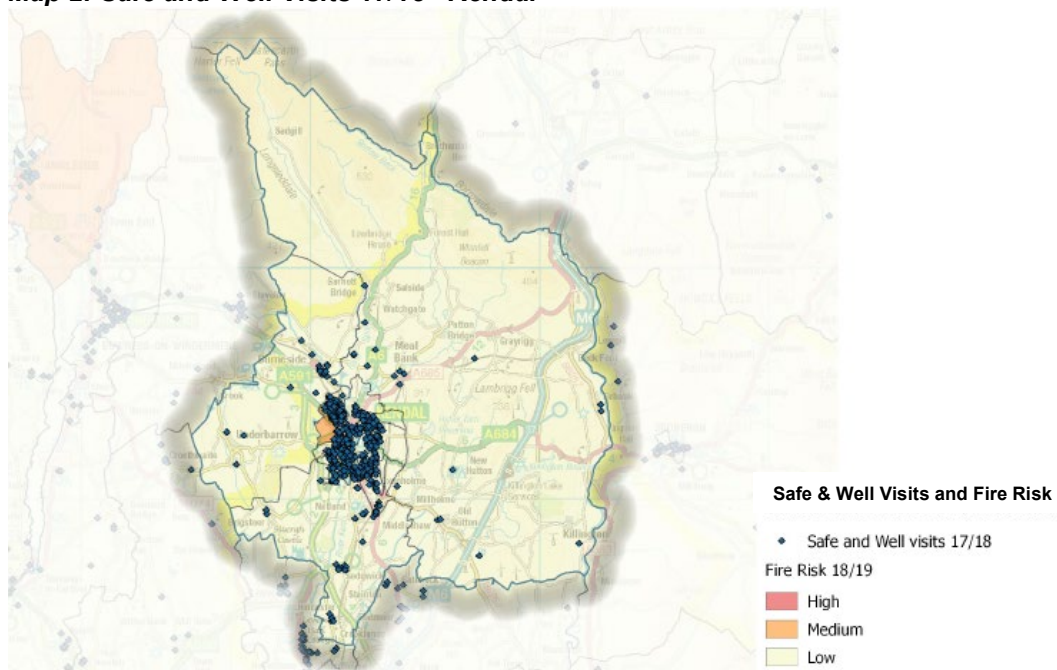
Map 1: 18/19 Primary Fire Risk –Kendal



Prevention and Protection Activity

In April 2017 CFRS implemented their new Safe and Well visits. These are targeted at individual households that are high risk, rather than areas of high risk as previously targeted in the Home Safety Visits. In 2017/18 CFRS conducted 10,432 Safe and Well visits across Cumbria.

Map 2: Safe and Well Visits 17/18 –Kendal



Injury Road Traffic Collision Response Profile

Incident and Risk Profile

The Injury RTC risk modelling no change in rate of risk for Kendal Fire Station area. There is one LSOA that is high risk in 2018/19. However, the overall risk score remains the same as in 2014/15 at 664.

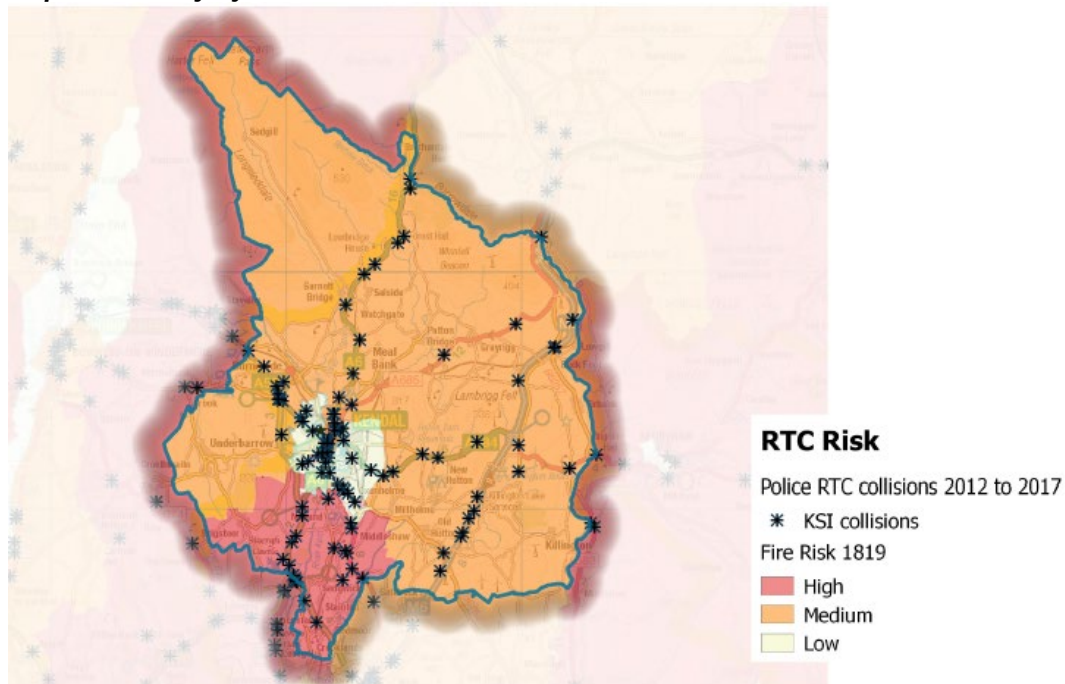
Table 3: 18/19 Injury RTC Risk – Kendal

Kendal Risk Profile		Incidents 2009/10 - 13/14		Incidents 2010/11 - 14/15		Incidents 2011/12 - 15/16		Incidents 2012/13 - 16/17		Incidents 2013/14 - 17/18	
		2014/15 Risk		2015/16 Risk		2016/17 Risk		2017/18 Risk		2018/19 Risk	
Score	Risk Grade	Risk Score	No of LSOA	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs
100	High	100	1	0	0	0	0	100	1	100	1
24-100	Med	304	4	348	5	384	5	224	3	300	4
<=24	Low	260	12	324	12	324	12	252	13	264	12
TOTAL		664	17	672	17	708	17	576	321	664	17

Datasources: Cumbria Constabulary RTC Data, FireCore Incident data

The map below shows the risk levels by LSOA for Cumbria, overlaid with Killed/ Seriously Injured (KSI) incidents between 2012 and 2017.

Map 3: 18/19 Injury RTC Risk –Kendal



Prevention and Protection

CFRS provide Road Awareness Training (RAT) sessions targeted at drivers aged 18 to 25 years, as these are at highest risk of being involved in a collision. We also currently provide RAT sessions targeted at those aged 55 years and older.

In South Lakeland District, 10 RAT sessions were provided throughout 2017/18 to a total of 507 attendees.

Table 4: Number of RAT sessions 2017/18 by District

Road Traffic Awareness Training Sessions completed 2017/18		
District	Number of RATs	Number attended
Allerdale	27	305
Barrow-in-Furness	7	257
Carlisle	24	629
Copeland	11	329
Eden	3	120
South Lakeland	10	507
Cumbria	82	2,147

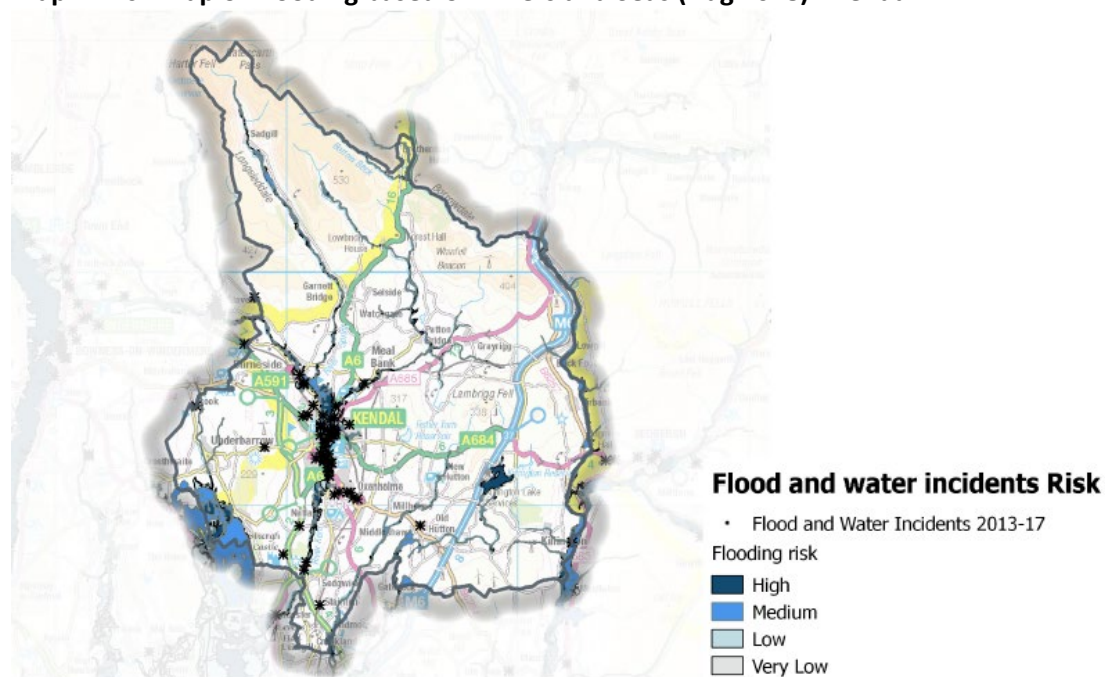
Datasource: CFRMIS

Flooding and Water Rescue - Response Profile

Incident and Risk Profile

Flood Risk is taken from the Environment Agency's Risk of Flooding from Rivers and Seas (Aug 2018). The risk of flooding is categorised into high, medium, low and very low areas. Incidents responded to by CFRS between 2013 and 2017 are overlaid on the risk areas.

Map 4: Risk Map of Flooding based on Rivers and Seas (Aug 2018) - Kendal



Prevention and Protection Activity

The [Environment Agency's Cumbria Flood Action Plan](#) (1 June 2016) details 65 areas of action for implementation across Cumbria, Eden, Derwent and Kent and Leven Catchment areas. These proposed actions fall into five key themes

- Strengthening Defences
- Upstream Management
- Maintenance
- Resilience
- Water Level Management Boards

Full details of the Cumbria 2015 Flood Events are available in the [Flood Impact Assessment](#) Dec 2015.

Other Risk information

Kendal is situated in the south east of Cumbria and is mainly an industrial town formed by many small industries with a population of around 33,000. The towns' ideal location means that it attracts a large transient population of holiday makers on their way to the Lakes increasing the sleeping risk particularly during the holiday seasons. In the recent past, the towns' success was mainly due to businesses like shoe manufacturing and the insurance industry, now however, the town continues to be successful by way of a varied industrial work-base.

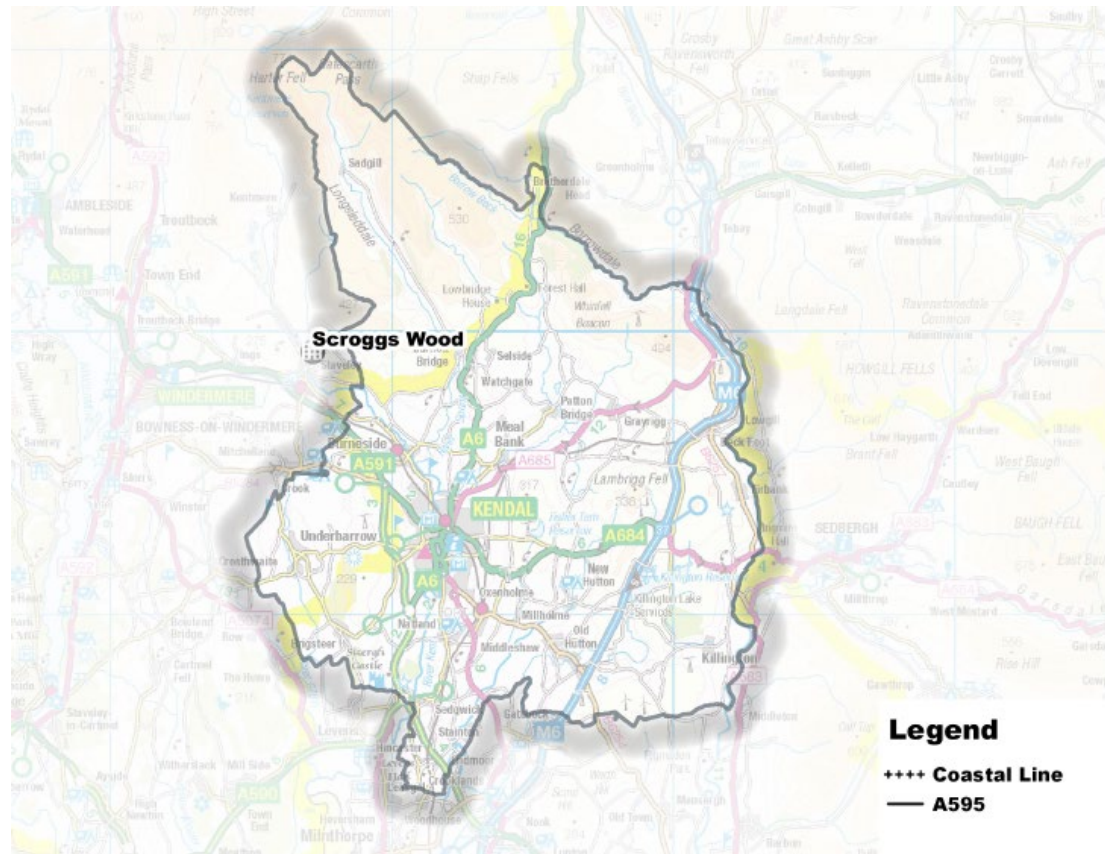
Kendal	Risk in station area
Heritage	<p>Grade I listed:</p> <ul style="list-style-type: none"> • Kendal Castle • Sizergh Castle • Abbot Hall Art Gallery • Church of the Holy Trinity • Castle Dairy <p>Grade II* listed:</p> <ul style="list-style-type: none"> • Stables and attached barn to South of Sizergh Castle • No 128, Highgate Hotel • Nos 26 & 28 Highgate with entrance to Yard 24 • Nos 13, 15, 17, 17A, & 19 Stricklandgate • Church of Holy Trinity & St George • No 7 (includes 9 and 11) Stramongate • Wattsfield Farmhouse & Cottage • Nos 39, 43, 45, 45A, & entrance to Yard 41 Branthwaite Brow, Market Place • Helsington Laithes farmhouse • No 2, Shop and adjoining public conveniences Police Yard, Yard 31 • Gilthwaiterigg • Collinfield farmhouse • Friends' Meeting House • Nether Levens Farmhouse and attached store to North • Old stables approx 50m North-East of Levens Hall, cottages attached to North-West and South; and gate piers attached to North-East corner • Church of St Mark, Natland • Blease Hall, Old Hutton • Selside Hall and attached outbuilding • Burneside Hall, Burneside
Environment	<ul style="list-style-type: none"> • 7 Sites of Specific Scientific Interest
Site Specific Risks	<ul style="list-style-type: none"> • Watchgate Water Treatment Works • Westmorland General Hospital • Furmanite International Ltd • Farleys Health Products • James Cropper • Westmorland Shopping Centre • National Grid Sub Station

Kendal	Risk in station area
Rurality	<ul style="list-style-type: none">• According to the DEFRA Urban/Rural classifications the 17 LSOAs that make up Kendal 14 are 'Urban' and 3 are 'Village and Hamlet'.

Horizon Scanning

Risk and demand are constantly evolving across the county, and as such necessitate an evolving service to optimise efficiency and effectiveness. In the short to long-term a range of infrastructure and economic projects are anticipated across the county. Those that are planned within the Kendal Fire Station area are shown below.

Map 5: Future Projects and Developments within Kendal Station Area



Currently there are no large infrastructure or economic projects planned within the Kendal station area, however the neighbouring station area of Staveley has:

Station	Project	Investment Impact
Staveley	Scroggs Wood	Ensure employment site is deliverable

Based on these economic and housing projects, South Lakeland district's population is expected to remain relatively stable with projections of growth between 0% and +4% by 2023, which would lead to primary fires staying the same or increasing by 5. This would have no projected impact on fire casualty rates by 2023.