

# Barrow Station Risk Review / Profile

This document assesses the specific performance and risk within the fire station area. It provides more defined risk profiling down to Lower Super Output Area (LSOA) level.

The risk profiling process by its very nature provides evidence of the fire risk within each geographical LSOA using detailed known risk and demographic information. The risk formula used to inform our fire risk profile was devised following the Intervention Standards Review, full details are available on our website: [www.cumbria.gov.uk/fire](http://www.cumbria.gov.uk/fire)

The review also identifies other significant risks in the area that need consideration so that our resources are appropriately allocated across the county.

As well as looking at county wide issues and trends in the main Integrated Risk Management Plan (IRMP), this individual station risk profile considers:

- Current resources
- Appliance availability
- Operational response activity
- Fire risk profile
- Next nearest supporting appliances
- Location specific risks including: heritage risk, environment risk, site specific risks: flooding risks, rurality and resilience risk.

## **Resources**

Barrow's Phoenix Road fire station was opened in 1996 replacing the old central fire station in Abbey Road. Covering the coastal town of Barrow with a population of 60,000 in some 20,000 households, the station was the first new one to be built by Cumbria Fire & Rescue Service since the service's formation in 1974. It has five bays housing two fire engines, an Aerial Ladder Platform (ALP) and an Incident Response Unit (IRU). The watch strength is 5 comprising of 1 crew manager and 4 firefighters, working on the conventional 2-2-4 (four Watch) duty system.

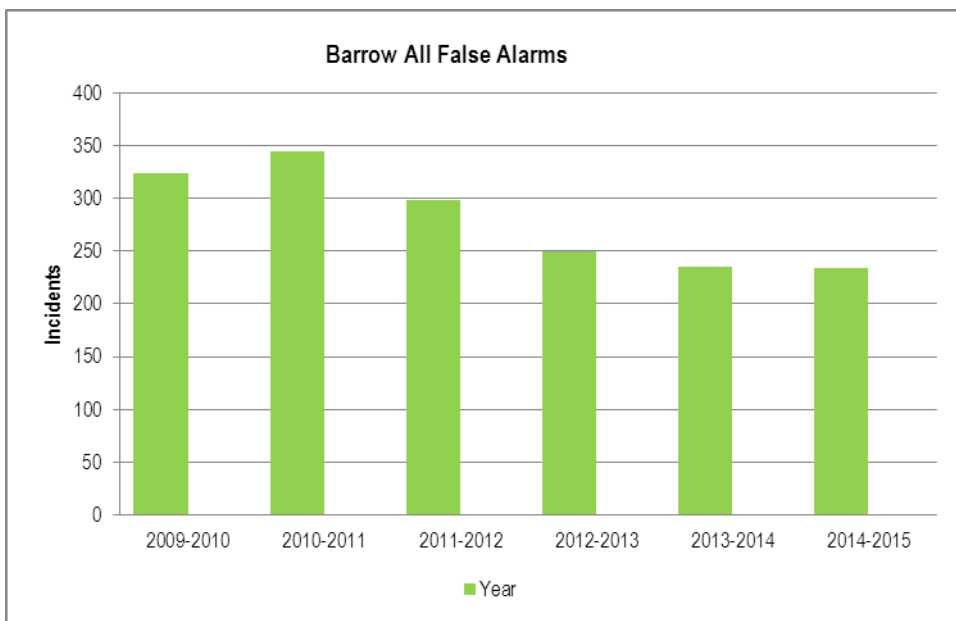
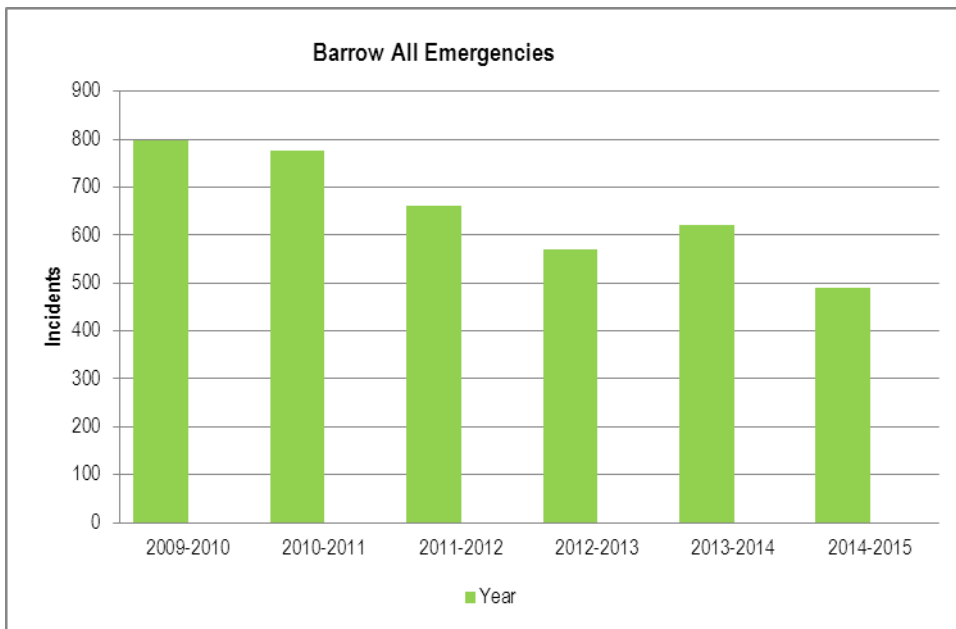
The site as well as containing the station and locality headquarters, has a large drill ground with tower and comprehensive Breathing Apparatus (BA) training facilities. The locality office section of the building doubles as an emergency control centre for the Furness & South Lakeland Area and as such would be utilised by responding agencies for a major emergency in that area.

## Activity

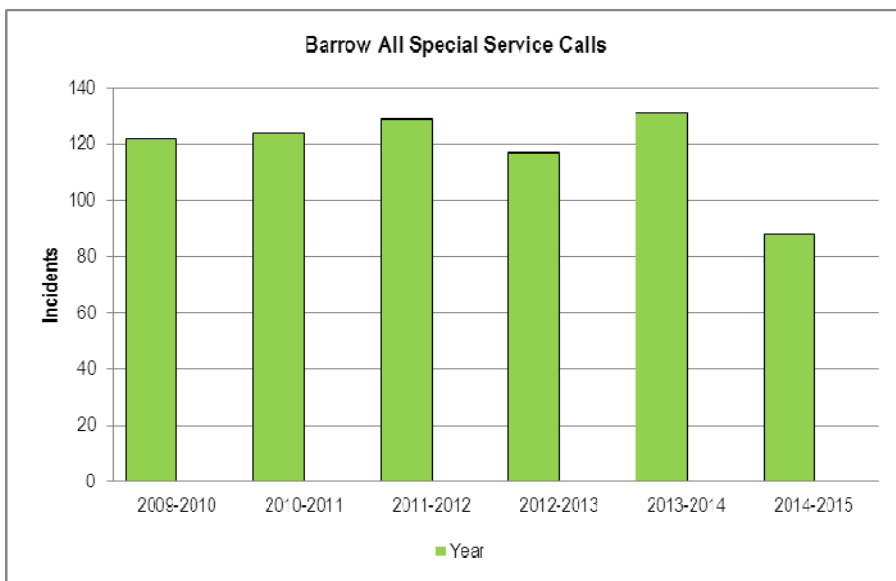
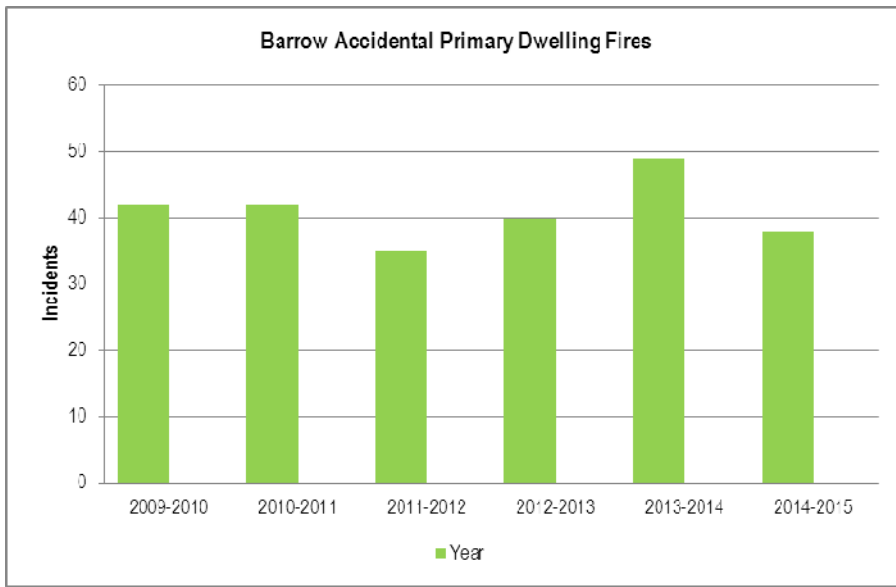
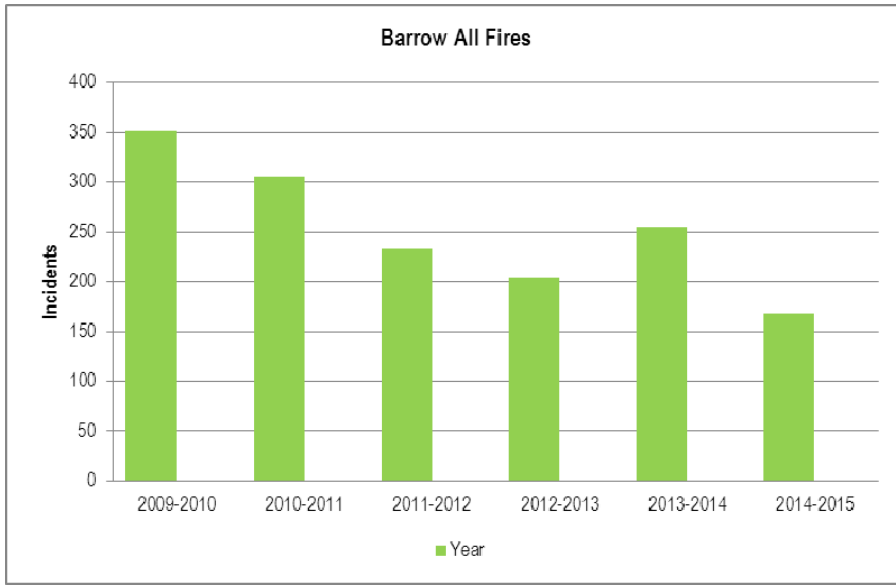
Considering incident numbers and types over time, the following table illustrates that Barrow station area has seen a considerable reduction in the number of incidents:

Fire Station	Incident Activity in historical Station Area		Recent Incident Activity in historical Station Area Averaged over 2011-14 period				Fire engines / Crewing System	
	Average Number of Incidents 2003/2004	Average Number of Incidents 2008/2009	Average Number of Incidents	Average No of AFAs	Average No of Road Traffic Collisions	Average No of Property Fires	Number of Fire engines	Crewing System
Barrow	1193	887	620	191.7	15.3	82.3	1 / 1**	Regular 2/2/4

The following number of incidents have occurred in Barrow Station Area but not necessarily attended by the Barrow fire engine:



**Activity continued**



## Activity continued

The Barrow fire engines have 'booked in attendance' at the following number of incidents over the last five years. Some of the incidents attended may have been in neighbouring station areas. The figures for the now closed Dalton station have been added in.

### Incidents Attended Apr-2009-Mar-2015 by C40 & C44

#### Station Pumps

CallSign	Incident_Type	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	Total
C40P1	FA - Apparatus	85	81	64	122	158	143	653
	FA - Good Intent	71	54	55	59	59	61	359
	FA - Malicious	7	6	7	4	12	6	42
	Fire - Chimney	15	11	13	14	13	6	72
	Fire - Primary Boat	4	8	1		1	2	16
	Fire - Primary Dwelling	47	41	40	57	64	48	297
	Fire - Primary NonResidential	26	36	34	21	42	23	182
	Fire - Primary OtherResidential	1	2	2	2	1	3	11
	Fire - Primary Outdoor	4		2			1	7
	Fire - Primary OutdoorStructure	8	3	8	1	3	5	28
	Fire - Primary RoadVehicle	14	26	11	9	16	11	87
	Fire - Secondary	217	194	141	70	118	71	811
	SSC - Other	49	50	53	51	74	58	335
	SSC - RTC	18	14	16	14	22	11	95
C40P2	FA - Apparatus	228	256	225	120	83	30	942
	FA - Good Intent	39	40	27	48	36	8	198
	FA - Malicious	4	10	11	7	4	3	39
	Fire - Chimney	3	2	4	5	4	1	19
	Fire - Primary Boat	3	6	1		1		11
	Fire - Primary Dwelling	53	45	38	53	52	8	249
	Fire - Primary NonResidential	25	37	30	21	32	4	149
	Fire - Primary OtherResidential	3	2	1	3		2	11
	Fire - Primary Outdoor			1				1
	Fire - Primary OutdoorStructure	1		2	3	2	1	9
	Fire - Primary RoadVehicle	4	4	3	7	7	1	26
	Fire - Secondary	30	34	17	50	22	3	156
	SSC - Other	46	38	52	45	30	9	220
	SSC - RTC	14	10	6	18	11	1	60
C40P3	FA - Apparatus						3	3
	FA - Good Intent						4	4
	Fire - Primary Dwelling						2	2
	Fire - Primary NonResidential						1	1
	Fire - Secondary						1	1
	SSC - RTC						1	1
C44P1	FA - Apparatus	22	18	9	3	3	2	57
	FA - Good Intent	3	5	8	5	5	1	27
	FA - Malicious		1	1				2
	Fire - Chimney	5	1	2	4	1		13
	Fire - Primary Boat	1	2					3
	Fire - Primary Dwelling	5	1	7	2	2	1	18
	Fire - Primary NonResidential	2	3	3	1	1		10
	Fire - Primary OtherResidential		1	1			1	3
	Fire - Primary Outdoor	1						1
	Fire - Primary RoadVehicle	1	2	2	2	1		8
	Fire - Secondary	7	14	9	5	4	3	42
	SSC - Other	9	4	2	2	4	1	22
	SSC - RTC	2	7	2		2		13
	<b>Total</b>		<b>1077</b>	<b>1069</b>	<b>911</b>	<b>828</b>	<b>890</b>	<b>541</b>

## Fire Risk Profile

The high level fire risk profile below, for the station, illustrates how the exposure to fire risk over the last eight years has moved..

C40 Barrow Risk Profile		Incidents 2003/4 - 07/08		Incidents 2004/5 - 08/09		Incidents 2005/6 - 09/10		Incidents 2006/7 - 10/11		Incidents 2007/8 - 11/12		Incidents 2008/9 - 12/13		Incidents 2009/1 - 13/14		Incidents 2010/11 - 14/15	
		2008/9 Risk		2009/10 Risk		2010/11 Risk		2011/12 Risk		2012/13 Risk		2013/14 Risk		2014/15 Risk		2015/16 Risk	
Score	Risk Grade	Risk Score	No. of SOAs	Risk Score	No. of SOAs	Risk Score	No. of SOAs	Risk Score	No. Of SOAs	Risk Score	No. Of SOAs	Risk Score	No. Of SOAs	Risk Score	No. Of SOAs	Risk Score	No. Of SOAs
76 and above	High	352	4	428	5	342	4	246	3	152	2	76	1	0	0	0	0
35 to 75	Medium	1340	25	1246	23	1342	25	1288	24	1162	23	1100	24	1120	25	988	22
34 and below	Low	258	11	296	12	254	11	288	13	342	15	336	15	336	15	414	18
		1950	40	1970	40	1938	40	1822	40	1656	40	1512	40	1456	40	1402	40
Total Risk Score		1950		1970		1938		1822		1656		1512		1456		1402	
Risk Score Increase/Reduction over the period				1.03%		-0.62%		-6.56%		-15.08%		-22.46%		-25.33%		-28.10%	

### Next nearest Supporting Appliances

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

Station Name	Distance by Road (MILES)
Walney	2
Ulverston	8.5
Broughton	16

### Other contextual information

Although Barrow remains predominantly a shipbuilding town with the BAE Systems shipyard specializing in submarine construction, crews from the station also train regularly on the more diversified risk sites such as the gas terminals, a paper mill and vessels in the dock system.

<b>Barrow:</b>	<b>Risk in station area:</b>
Heritage	<ul style="list-style-type: none"> <li>• Bow Bridge</li> </ul> <p><b>Grade I listed:</b></p> <ul style="list-style-type: none"> <li>• West Gate to Furbess Abbey, remains of</li> <li>• Capella Extra Portas with attached walls</li> <li>• Gateway adjoining Capella Extra Portas</li> <li>• Furness Abbey Wall</li> <li>• Furness Abbey, including all medieval remains in care of English Heritage</li> <li>• Piel Castle</li> <li>• No 101, Rampside Hall</li> </ul> <p><b>Grade II* listed:</b></p> <ul style="list-style-type: none"> <li>• Abbey House Hotel</li> <li>• Town Hall</li> <li>• Church of St James</li> <li>• Ormsgill Farmhouse</li> <li>• Barn immediately to rear of Sowerby Hall Farmhouse</li> <li>• Park House Farmhouse</li> <li>• Nos 1-13 (Consecutive), Sloop Street Tenements</li> <li>• Nos 1-13 (Consecutive) Steamer Street Tenements</li> <li>• Nos 1-9 (Consec), Devonshire Buildings, Island Road Mission &amp; The Devonshire Public House</li> <li>• Nos 10-14 (Consecutive), Devonshire Buildings</li> </ul>
Environment	No significant Environmental Risk Sites identified within the Station area
Site Specific Risks	British Gas Plc, BAE Systems LTD, Bae Systems Top Yard Area A, BAE Systems Devonshire Dock, Laporte Wood Protection Ltd, Partylite Manufacturing, Sovereign Chemical Industries Ltd, INS Nuclear Terminal, Urofoam Ltd Advanced Roofing Supplies, Centrica South, Centrica North, Furness General Hospital, Robert McBride Group, United Utilities (Electricity) Depot Shanks Waste Solutions, CCW Manufacturing Ltd
Flooding	Flood Risk: Barrow is at risk of tidal flooding but on a low scale with a return period of approximately 1:200 years. Surface water flooding causes some localized risk to some properties.
Rurality	Of the 34 Super Out Put Areas that make up Barrow all are designated as Urban according to DEFRA Urban/Rural classifications.

The maps below examine the profile of the station in regard to broader risks. In this context, the maps represent the vulnerability (or risk) of a LSOA to a particular incident type, not a prediction of such an event happening in the future. Please note, a threshold has been set across the county in order to identify areas of greater risk from specific incident types, to inform prevention strategies and resource provision.

**Barrow (C40) Diversity Ratio Profiles**

Primary Fires / RTCs

- Involving a fatality
- Involving a serious casualty
- Involving slight or no casualties

🔥 Secondary fires

Flood and Water Rescues

- 💧 Flood incidents
- 🚣 Water rescues

C40 Barrow Score by Diversity Ratio Index  
By Lower Super Output Area

- High
- Medium
- Low

