

PRINCIPAL DESIGNER WORKING GROUP

Root Cause Analysis – Capture and Application of Lessons
Learnt / Design Change Process

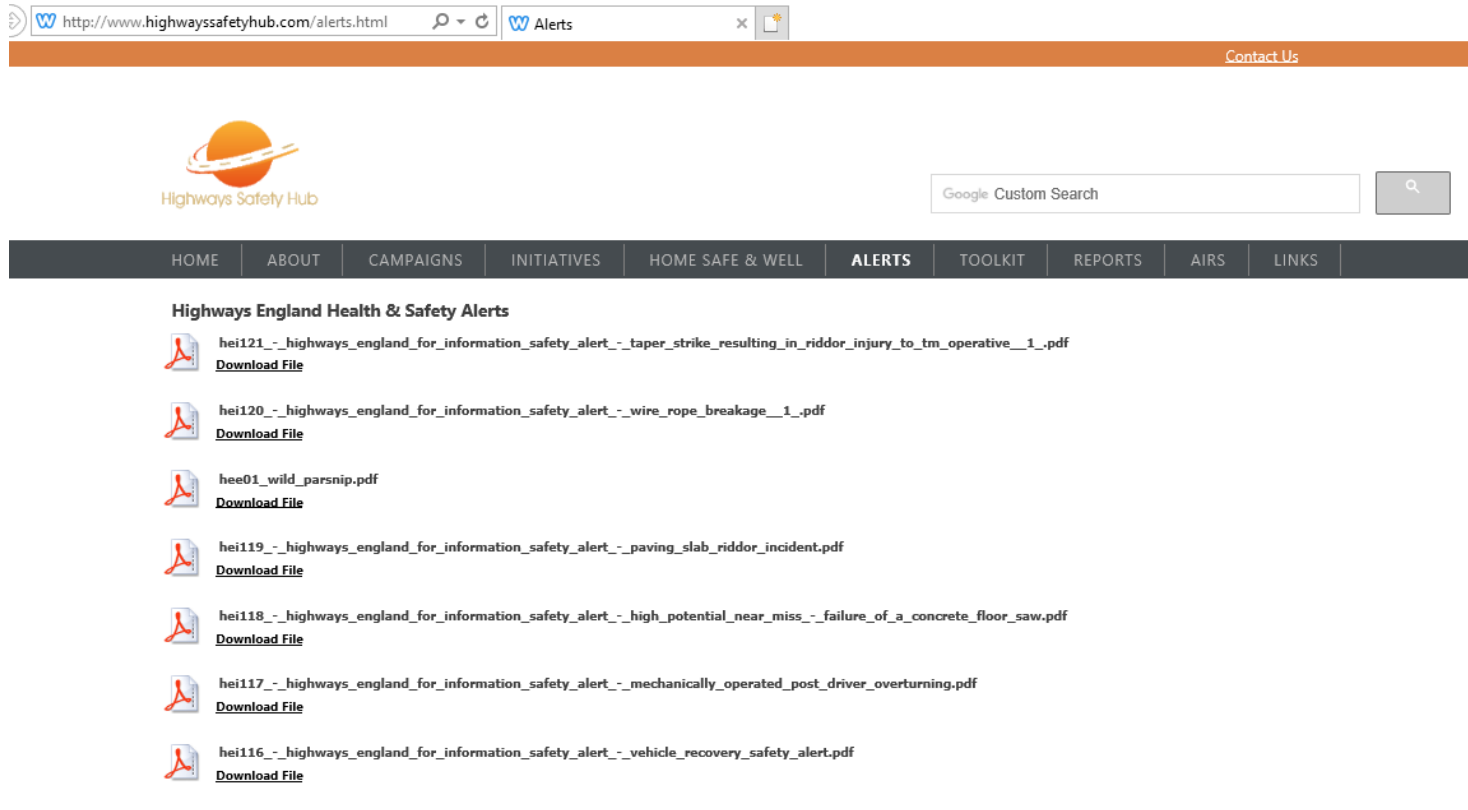
17th October 2019

Incorporating

EC HARRIS
BUILT ASSET
CONSULTANCY

Hyder 

Highways England H & S Alerts



The screenshot shows a web browser window with the URL <http://www.highwaysafetyhub.com/alerts.html>. The page features the Highways Safety Hub logo, a Google Custom Search bar, and a navigation menu with links: HOME, ABOUT, CAMPAIGNS, INITIATIVES, HOME SAFE & WELL, **ALERTS**, TOOLKIT, REPORTS, AIRS, and LINKS. Below the navigation menu, the section is titled "Highways England Health & Safety Alerts". It lists seven PDF files, each with a "Download File" link:

- [hei121_-_highways_england_for_information_safety_alert_-_taper_strike_resulting_in_riddor_injury_to_tm_operative__1_.pdf](#)
- [hei120_-_highways_england_for_information_safety_alert_-_wire_rope_breakage__1_.pdf](#)
- [hee01_wild_parsnip.pdf](#)
- [hei119_-_highways_england_for_information_safety_alert_-_paving_slab_riddor_incident.pdf](#)
- [hei118_-_highways_england_for_information_safety_alert_-_high_potential_near_miss_-_failure_of_a_concrete_floor_saw.pdf](#)
- [hei117_-_highways_england_for_information_safety_alert_-_mechanically_operated_post_driver_overturning.pdf](#)
- [hei116_-_highways_england_for_information_safety_alert_-_vehicle_recovery_safety_alert.pdf](#)

Available at <http://www.highwaysafetyhub.com/alerts.html>

Safety Alerts - Recent

- Within the period since our last PDWG meeting on 25th July 2019 we have received and reviewed 15 safety alerts within our safety team (Principal Designers / H & S Practitioners) at monthly Safety, Design and Designers meetings.

Highways England Safety Alert	Topic	Date Received	Root Cause	Improvement	PDWG WLSG Review
HEi105	Notification of Product Recall from 3M USA - Lifelines	30 th July 2019			
HEi106	Flat Bed Trailer Near Miss	5 th August 2019			
HEi107	Further Updates to HE Incident Reporting System - AIRSWeb	6 th August 2019			
HEi108	Service Strike	12 th August 2019			
HEi109	Insecure Load – Low Loader	13 th August 2019			
HEi110	Fall from Height (Failed Side) Impact Bar on Cone Well	13 th August 2019			
HEi111	Inspection of Recessed (Offset) Gullies	15 th August 2019			
HEi114	Inspection of Recessed (Offset) Gullies	30 th August 2019			
HEi115	Changes to the Driver Qualification Cards	11 th September 2019			
HEi116	Vehicle Recovery Injury	11 th September 2019			
HEi117	Mechanically Operated Post Driver Overturning	11 th September 2019			
HEi118	High Potential Near Miss – Failure of a Concrete Floor Saw	13 th September 2019			
HEi119	Paving Slab RIDDR Incident	19 th September 2019			
HEi120	Wire Rope	3 rd October 2019			
HEi121	Taper Strike Resulting in RIDDOR Injury to TM Operative	4 th October 2019			

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Categorising – Safety Alerts

Discipline*	Number of SA / NM	Check Sheet	C/S - CPP	Services	Access - Red Line Boundary	RAMS	For Information	Design Change	Totals
All (TLG)	52	17	7	3	8	24	29	0	88
Structures (TLG)	15	6	1	0	0	1	5	6	19
Highways (TLG)	20	5	8	2	6	4	2	3	30
Geotech (TLG)	5	2	2	0	2	1	2	0	9
Tech (TLG)	3	2	1	0	0	1	1	0	5
Environment (TLG)	2	2	1	0	0	0	0	0	3
N/A	18								
Totals	115	34	20	5	16	31	39	9	154
Percentage of total		22.1	13.0	3.2	10.4	20.1	25.3	5.8	100.0

Analysis is up to entry Row 115

No of Entries - 112

Made up of:-

Highways England HE0i's - 76

NR - 4

Kier/BB/Skanska etc - 12

MSM - 10

Other - 12

Link to SA Summary ([Link](#))

Safety Alerts – Application of Lessons Learnt / Design Change Process

Progress undertaken by PDWG Whole Life Design Task Group (WLDTG)

Members has created a Lessons Learnt Design Manual: Currently in Draft covering :

- General – Communicating Hazards (All)
- General – Pre-Construction Information (All)
- Footways – Off Network Access (Highways / Tech)
- Earthworks – Narrow Verges (Highways)
- Technology – Cabinets & Signal Posts (Highways)
- Technology – Inspection & Testing (Technology)
- Earthworks – Red Line Boundary (All)
- Structures – Modular Construction (Structures)
- Preliminaries – Utilities Strikes (ALL)
- Drainage & Ducts – Temporary Works (Highways / Geotechnical)

Safety Alerts – Application of Lessons Learnt / Design Change Process

- **Safety Alert HEi119– A14 - Underbridge Paving Slab RIDDOR – Tim Bowes (Atkins) – ([Link](#))**
- **Safety Alert – HEi 117 – Mechanically Operated Post Driver Overturning – ([Link](#))**

