

Explosives incidents

January 2020 report

This document presents statistics for all explosives safety and security incidents reported during January 2020. It also includes a cumulative summary of all safety and security incidents for the last twelve month period. The number of injuries and fatalities occurring in the community and industry are presented for the month of January 2020, as well as the cumulative total for the financial year 2019-20.

	January 2020	Financial year to date (2019-20)
Community	0 fatality 0 injury	0 fatality 1 injury
Industry	0 fatality 0 injury	0 fatality 0 injury

Figure 1: Explosives incidents and complaints January 2019

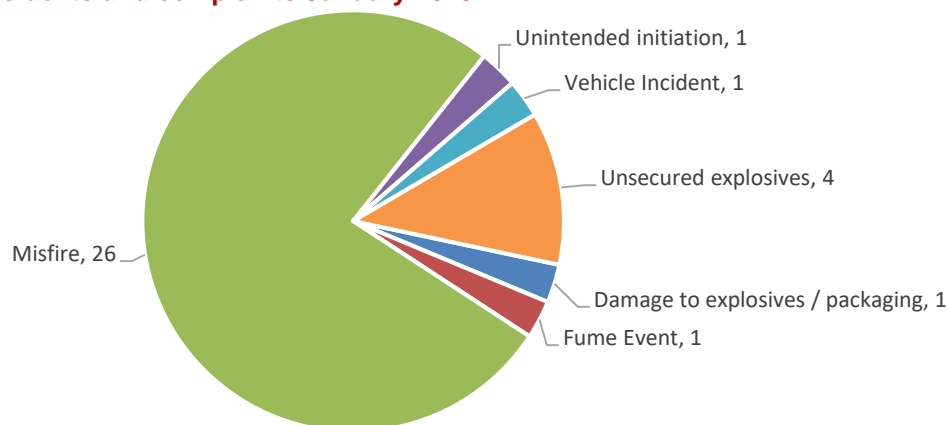
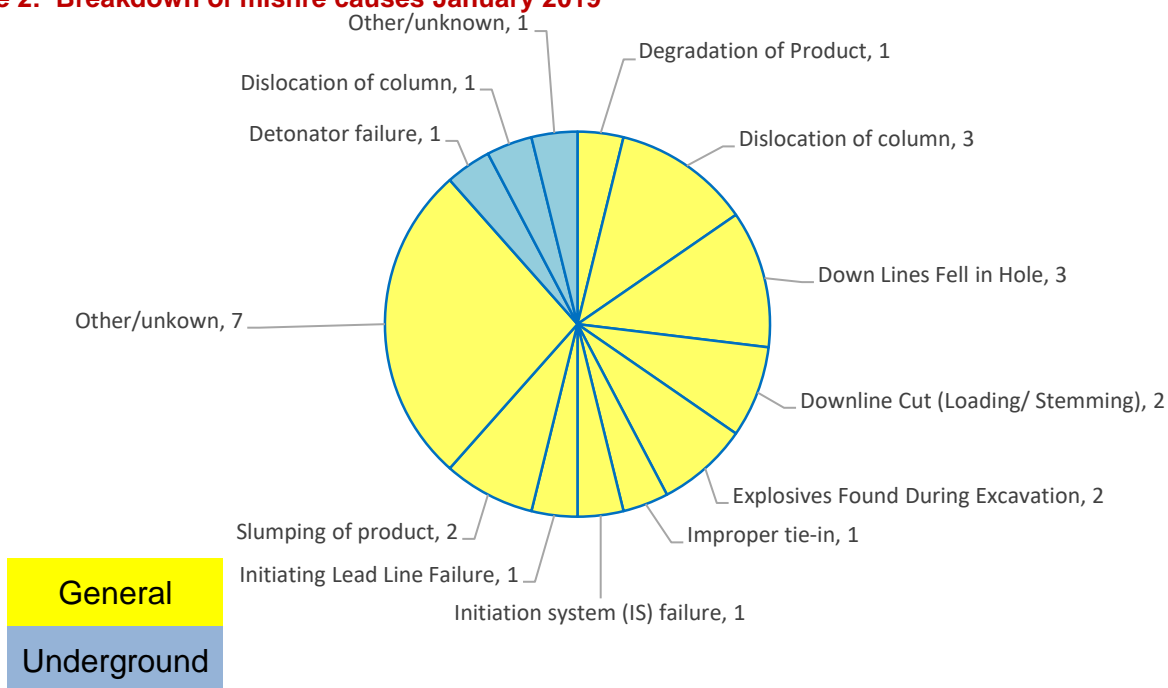
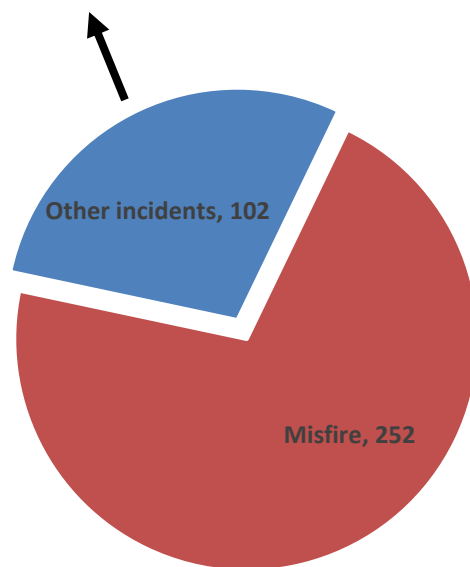
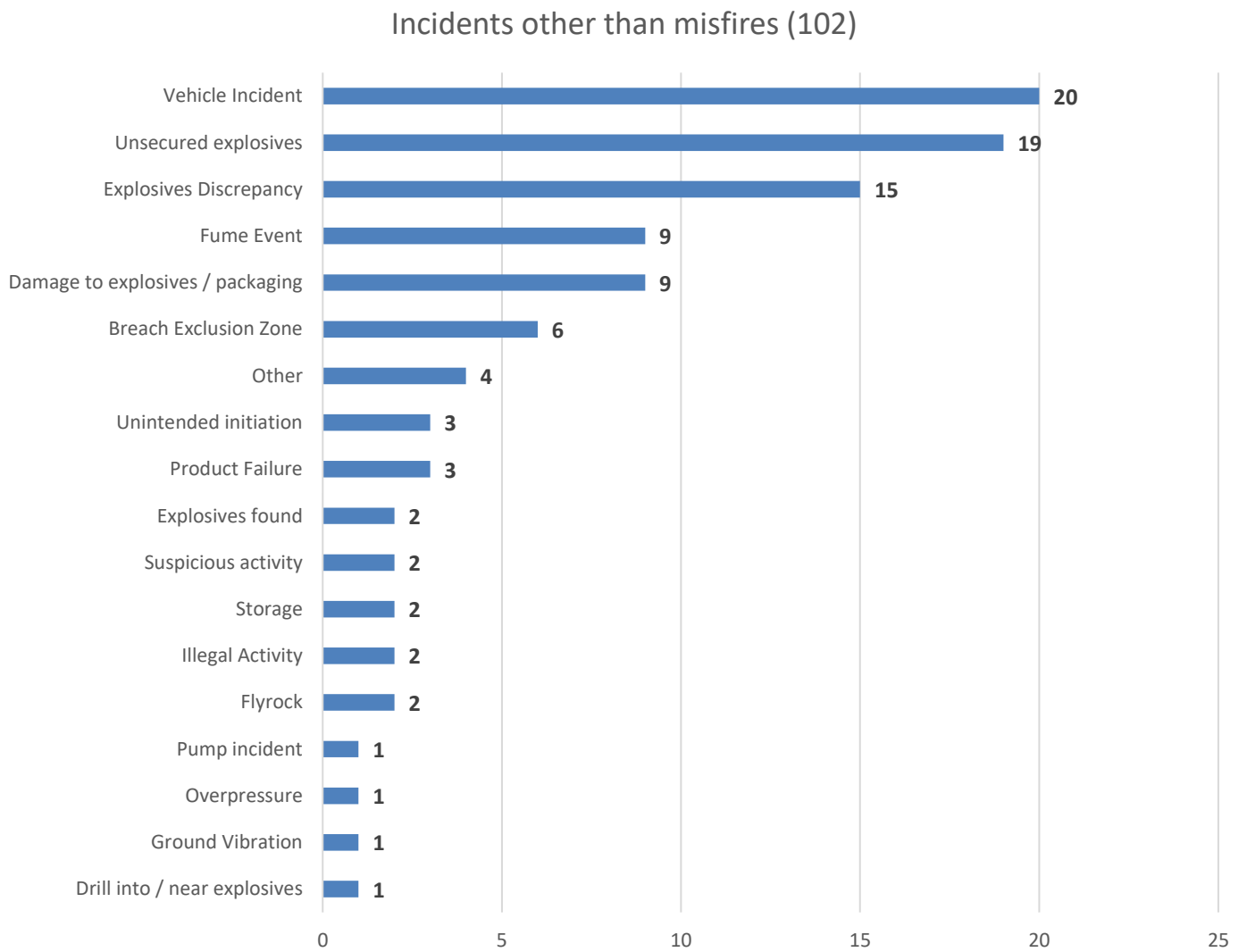


Figure 2: Breakdown of misfire causes January 2019



General
Underground

Figure 3: Past year incidents February 2019 – January 2020



Breakdown of incidents for January 2019

Security

Description	Explosives involved	Outcome/Possible causes
Unsecured explosives (4 incidents)		
Loaded explosives holes left unsecured on mine site overnight.	Blasting explosives	Breach of site security plan with 23 loaded holes left overnight. Check next morning confirmed none missing. Site investigation ongoing.
Entry access system to a reload facility has failed.	Security sensitive ammonium nitrate	Site has implemented a new system with card reader. This failed. Site investigating to ensure failure does not recur.
Key to explosives magazine on a mine site were misplaced by shotfirer.	Blasting explosives	Magazine key located the following morning. Temporary additional lock installed prior to key being located.
Explosives were left inside unsecured carry boxes of a vehicle that was in a workshop for repair.	Blasting explosives	Incident was not immediately reported. Explosives secured and returned to magazine. No indication of follow on action by site.

Safety

Description	Explosives involved	Outcome/Possible causes
Misfires – aboveground (23 incidents)		
Degradation of product x 1 Dislocation of column x 3 Downlines fell in hole x 3 Downline cut (loading/stemming) x 2 Explosives found during excavation x 2 Improper tie-in x 1 Initiation system failure x 1 Initiating lead line failure x 1 Other/unknown x 7 Slumping of product x 2	Blasting explosives	No adverse outcomes
Misfires – underground (3 incidents)		
Detonator failure x 1 Dislocation of column x 1 Other/unknown x 1	Blasting explosives	No adverse outcomes
Damage to explosives/packaging (1 incident)		
Tautliner support post dislodged during transit and damaged packaging of a box containing explosives	Blasting explosives	Stock was counted, no discrepancy identified, repackaged and sent to final destination. No indication of further action by transporter
Fume event (1 incident)		
Level 5 fume event generated on mine site. Fume did not leave fume management zone.	Blasting explosives	Nil exposures. Nil unplanned evacuations.
Unintended initiation (1 incident)		
Whilst conducting a scheduled inspection it was noted that there was an unacceptable level of risk present for the potential of loose overhanging rocks that may fall onto an active explosives loading area.	Blasting explosives	Mine operations ceased during risk assessment. Control measures implemented and operations resumed.
Vehicle incident (1 incident)		
Strapping of a bulka bag loaded with explosives product has slipped off, tipping the bulka bag onto the ground.	Security sensitive ammonium nitrate	Scene of incident secured. Product retrieved and repackaged. Residual product dispersed and dissolved by water truck. All drivers reminded to check load restraints.