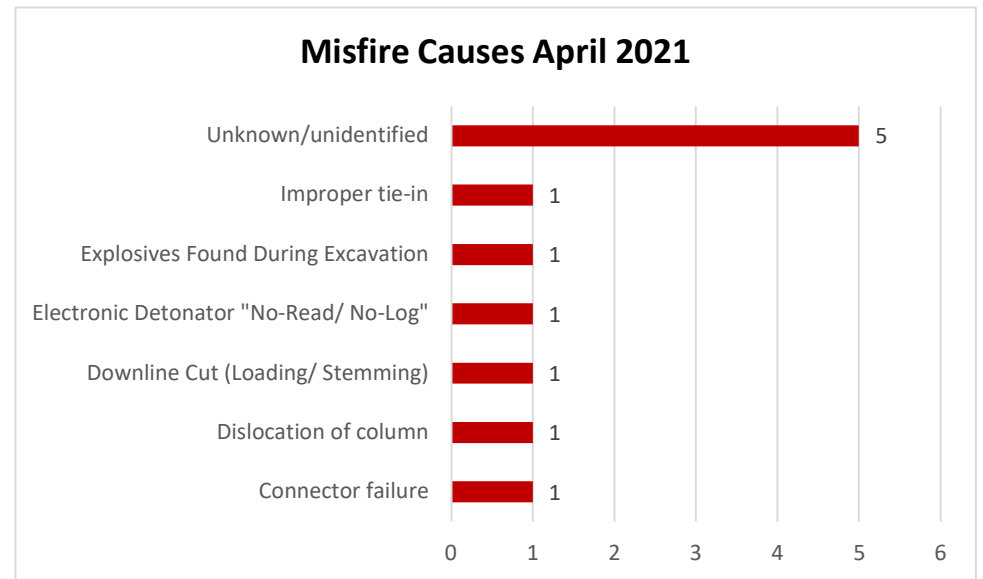
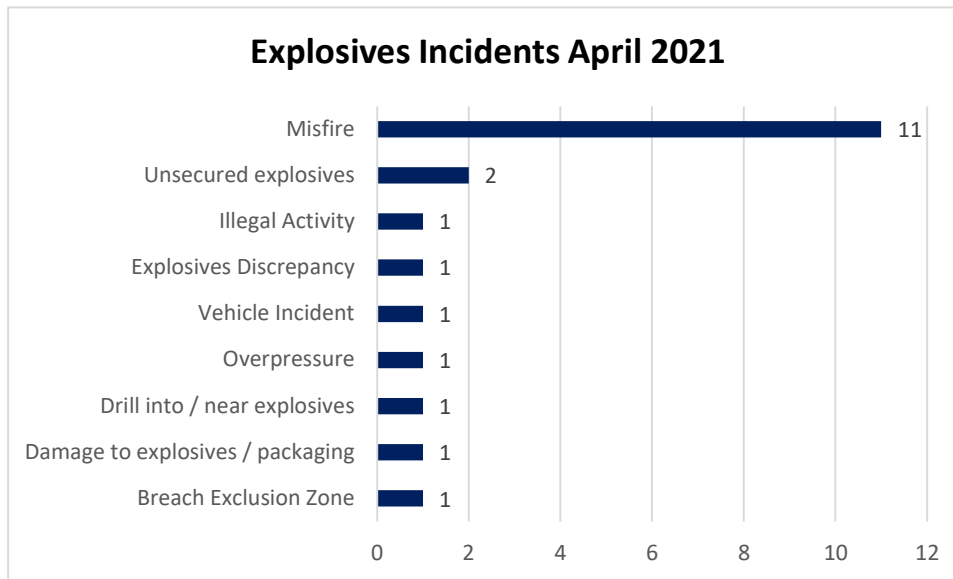




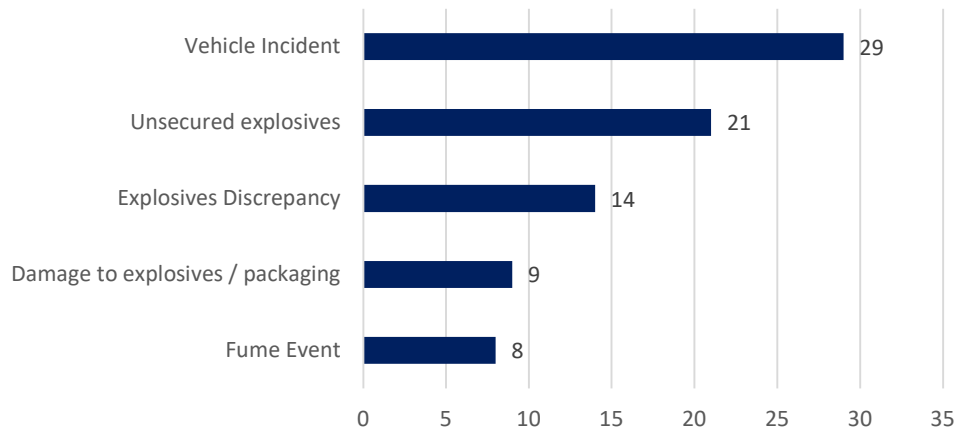
Explosives incidents – April 2021

This document presents statistics for all explosives safety and security incidents reported during April 2021. It also includes the top 5 incidents for the current and previous financial years, plus a cumulative summary of all safety and security incidents for the last 12 months. The number of injuries and fatalities occurring in the community and industry are presented for the month of April 2021, as well as the cumulative total for the financial year 2020-21.

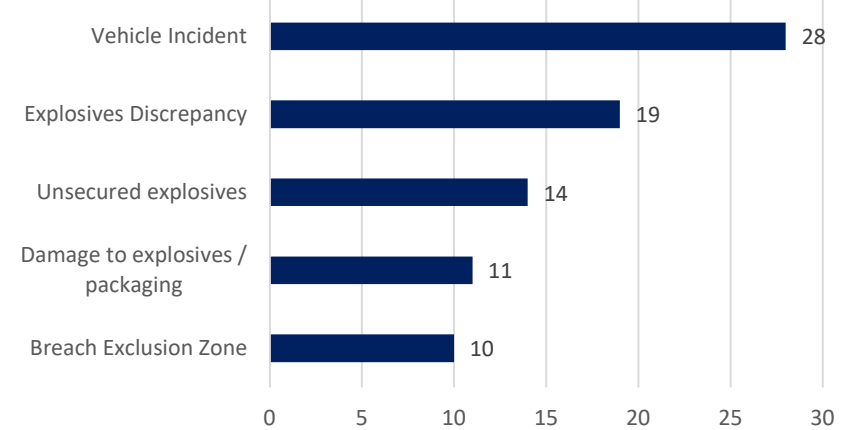
	April 2021	Financial year to date (2020-21)
Community	0 fatality 0 injury	0 fatality 0 injury
Industry	0 fatality 1 injuries	0 fatality 2 injuries



Top 5 Most Common Incidents Excluding Misfires Jul 2020 - Apr 2021

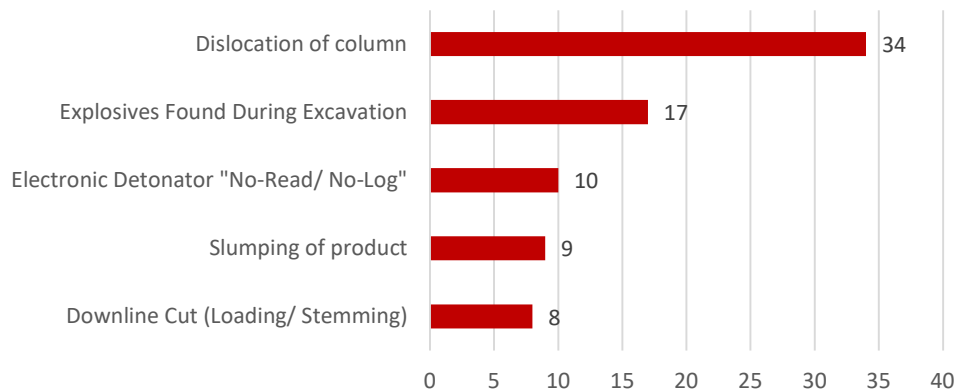


Top 5 Most Common Incidents Excluding Misfires Jul 2019 - Jun 2020



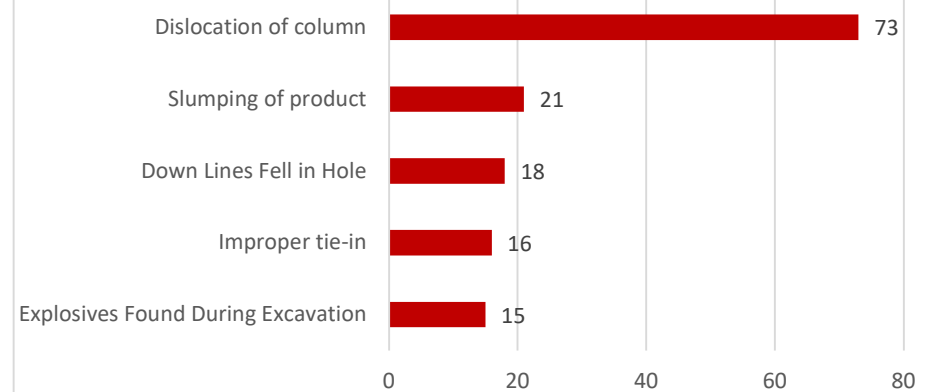
Top 5 Most Common Reasons for Misfires Jul 2020 - Apr 2021

Note - Unidentified and Other have been removed (54)

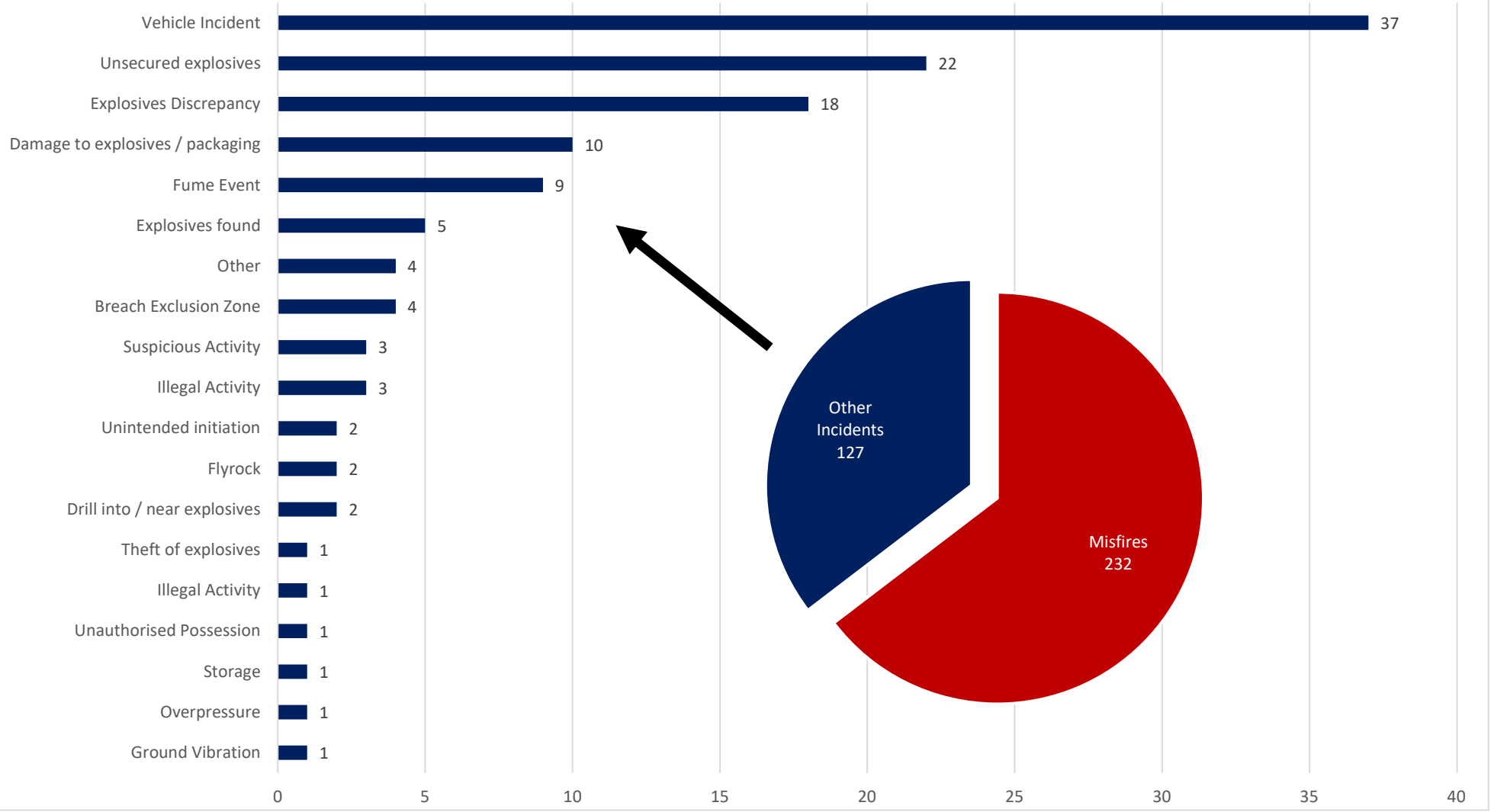


Top 5 Most Common Reasons for Misfires Jul 2019 - Jun 2020

Note Unidentified and Other have been removed (72)



Past Year Incidents May 2020 - April 2021



Breakdown of incidents for April 2021

Security

Problem	Action	Explosives Inspectorate Actions / Outcomes
Unsecured Explosives (2 incidents)		
An incident occurred where seven (7) boosters fell from the back of a bomb ute onto the haul road. The bomb ute was traveling from the magazine to bench and the boosters fell out as the ute turned right onto the pit access road. The occupants of the bomb ute observed that the door to the HE storage compartment was open. They stopped to fix the door and noticed that 7 boosters were missing. They retraced their route and found the boosters on the road. The boosters were on the road for less than 5 minutes. A mine dozer had also been traveling along the road and had seen the boosters. The dozer had secured the area and called the mining supervisor. There was no evidence that any other vehicles had driven over or past the boosters whilst they were on the ground.	The boosters were recovered, counted, reconciled to the manifest and no boosters were missing. The boosters were returned to the storage container and transported to the blast pattern. The boosters were checked and there was no obvious damage.	Initial investigation findings indicate that the storage container may not have been correctly closed, secured, and locked.
At approximately 7:45PM 2X CMW's were travelling towards round about when identifying a box in the middle of the lane. Upon inspection identified 'EXPLOSIVE' stickers on box.	CMW's Secured scene immediately and contacted Shotfirer, Blast Supervisor and OCE. Shotfirer retrieved and secured x1 box of un-opened electronic detonators.	No adverse outcomes.
Explosives Discrepancy (1 incidents)		
The discrepancy of 1x 20kg bag of ANFO was discovered when the SSE and Underground Mine Manager conducted a magazine audit with the Mine Foreman.	The discrepancy has since been investigated and there is reasonable evidence that there was an additional bag used to charge the 3597 slot drive. This was the most recent firing prior to the audit.	No adverse outcomes.
Illegal Activity (1 Incident)		
Security at plant was breached. No damage to plant and equipment, no product storage breach, all buildings were secured except for the site the office. This was entered and 3 laptops and some other things were stolen and the wall graffitied	Email report sent to Principal Inspector of Explosives in the morning once notified by the Site Manager. Regular Police patrols took place over the weekend.	Child offender was reported by their parents and all items taken have been returned, Police are dealing with the offender. Internal Investigation underway.

Safety

Problem	Action	Explosives Inspectorate Actions / Outcomes
Misfires – aboveground (8 incidents)		
Connector Failure 1		
Shot was fired and it was checked for misfires at the time, no abnormalities were detected at the time. However approximately 2 weeks later 3 holes were discovered to have not fired when the muck pile was being excavated.	Contractor was called and the affected area was barricaded off and we immediately went to site to inspect. 3 holes were found not to have fired and the three downhole detonators and boosters were removed. There didn't appear to be any more holes that had not fired, so it was deemed to be safe.	Conclusion about the cause of the misfire, although unable to ascertain the exact cause, would be surface delay failure or surface delay incorrectly hooked in, causing 3 holes in a row to misfire

Downline Cut (Loading/Stemming) 1		
360kg Coal 12 found in dig face, no IE	OCE reported to contractor's on bench supervisor. They have dug around the area with caution and survey have picked it up and marked as misfire. Product being taken away to be dealt with in accordance with site procedures. Area surveyed and marked as 'dig with caution'	Believed to be due to cut off at junction between Permian and overlying basalt.
Electronic Detonator "No-Read/ No-Log" 1		
While testing the shot the detonator tested good but would not program during status check.	Contacted supplier and told nothing could be done it would be a misfire.	Told it could be possibly be a fuse head error
Explosives Found During Excavation 1		
Whilst dozer operator pushing tip head at East Dump, the operator noticed the primer on the ground in his work area.	When excavating the rest of the bench commenced. I rang the Queensland Explosives Inspectorate to inform them of the misfire.	No adverse outcomes.
Improper Tie-In 1		
Whilst conducting work area preparations for a dragline shot, an undetonated hole from a previously fired blast has been discovered. Hole not clipped in during tie up.	OCE and On Bench Supervisor have been notified and the scene has been secured. Hole successfully retied and detonated. Investigation commenced.	EI awaiting answers to a number of questions
Unknown/Unidentified 3		
Whilst loading the dump truck the excavator operator noticed a booster in the bucket as he was about to empty into the truck.	Operator notified supervisor of incident, booster had come out of excavator bucket so area was cleared & barricaded off. Contractor notified, attended site and fired product with det and booster	No adverse outcomes.
Whilst conducting mining operations (excavation) an unconfirmed amount of undetonated Coal 12 bulk explosive (nonel initiated) was discovered.	OCE notified and area secured. Shotfirer attended the scene on dayshift and commenced misfire treatment activities.	Three similar HPI's have been reported by this mine in the same shot #972A. It is expected that further isolated areas of undetonated bulk misfires may be encountered across the entire shot. A dig with caution is in place for all remaining shot #972A material. Investigation commenced.
Whilst conducting mining operations (excavation) approximately 10kgs of undetonated bulk explosive was discovered.	OCE notified and area secured. Shotfirer/On Bench Supervisor attended the scene on dayshift and commenced misfire treatment activities.	Investigation commenced.
Misfires – underground (3 incidents)		
Unknown/unidentified 2		
Development heading was fired, on inspection on N/S, two holes in the backs were found to have misfired, leaving low density ANFO (Orica Impact 50) in the holes.	Charge crew washed out the holes and re-fired with new product	No adverse outcomes.
Explosive found in hole when barring down loose roof for bolting, further excavation found 2 more explosive wrappers with no visible explosive on them. Explosive in first hole appeared to be 1 and ½ sticks	Nil provided	No adverse outcomes.

of Senatel powergel, 2 wrappers found did not appear to have any explosive contained in them		
Dislocation of Column 1		
Bad ground	Fired	No adverse outcomes
Breach Exclusion Zone (1 incident)		
Loader Operator has found the shot entrance gate down with the signs off to the side. After careful examination of the wheel tracks over the gate and the positioning of the signs it looked as if the gates may have been left down at end of day shift	Area was immediately made secure and statements taken from the loader operator and statements taken from shotfirers on the bench when they arrived in for start of dayshift. At the commencement of dayshift, a stocktake of explosives on the bench were immediately taken and all could be accounted for.	No adverse outcomes.
Damage to explosives / packaging (1 incident)		
Poorly secured pallet of explosive plugs has resulted in a full box falling from the tray of a flat bed Normet. During logistic loading activities the Normet has reversed over some of the explosive plugs after they fell to the ground	Normet shutdown, area barricaded & reported to Supervisor	Damage to explosives requiring disposal of 57 explosive plugs
Drill into / near explosives (1 Incident)		
Face has been bored out. Foreman has identified a misfire in the face (butt at shoulder height that contains explosive residue). Holes have been bored within 1 m of the misfire.	Butt has been washed out and made safe	No adverse outcomes
Overpressure (1 incident)		
The task to bore and fire a flitch for a drain hole was allocated to the crew by the Shift Supervisor at the PSI meeting. Before boring the flitch the majority of the pooling water was pumped away and a JSA conducted with proximity to infrastructure being identified. The flitch was bored and fired using minimal amounts of ANE. Post blast, it was identified that the electrical infrastructure had sustained damage from the blast	Investigation commenced. Incident was a result of a breach of existing site procedures. Disciplinary action was taken against the personnel involved	No adverse outcomes
Vehicle Incident (1 incident)		
B Trailer carrying residual amount of UN3375 Class 5.1 breakaway engaged isolating air supply to trailer resulting in brakes locking on. B Trailer has slid down road embankment and remained upright.	No injuries, only damage sustained was B trailer tyre set. Unserviceable due to flat spots.	No adverse outcomes