

Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | January 2012

Security

Incident	Explosive type	Quantity	Description
Loss of explosives	None		None reported for the month.
Theft of explosives	None		None reported for the month.
Other	Blasting	Unknown	During a search of a residence in Mount Isa, police located a quantity of explosives.
	Blasting	1	There was a booster identified missing from a box of 20 boosters.

Safety

Nature of Harm	High Potential	Explosive type	Industry sector	Description
None	Yes	Blasting	Mining	129 misfires reported: 2 due to column dislocations, 2 tie-in failures, 1 failure to register, 1 control box failure, 1 nonel tubing failure, 3 downlines lost, 1 pocket of ANFO found in void, 1 communication failure; other causes not known.
Damage to vehicle	No	Blasting	Mining	A coal mineworker misjudged the location of a parked, unmanned light vehicle while reversing his own light vehicle within the boundary of a designated blast area and contact was made between the two vehicles. There were no injuries reported.
Fire	Yes	Blasting	Mining	The wiring on a rear light of an explosives charge car caught fire at a mine site.
Fire	Yes	Blasting	Mining	A bucket elevator belt in the ammonium nitrate reload facility has had a belt failure and the belt has burned through causing smoke and fire.
Fume event	Yes	Blasting	Mining	A Level 4 fume event was generated that breached the exclusion zone. There were no exposures reported.
Fume event	Yes	Blasting	Mining	A Level 5 fume event was generated. There were no exposures reported.
Fume event	Yes	Blasting	Mining	A Level 2 fume event was generated, which exceeded the fume management zone. There were no exposures reported.
Fume event	No	Blasting	Mining	A fume event was generated. There were no exposures reported.

Nature of Harm	High Potential	Explosive type	Industry sector	Description
Fume event	Yes	Blasting	Mining	A Level 2 fume event was generated that travelled outside the extended exclusion zone. There was one exposure reported. There are no long-term health harms expected.
Other	Yes	Blasting	Mining	An explosive MPU was in the workshop for servicing and the recessed hex nut on the sump plug was found to be slogged out. The MPU had been emptied but not fully decontaminated of all explosives.
Other	Yes	SSAN	Transport	A truck driver was seen smoking inside the 'no smoking' area of a Government Reserve. The truck was loaded with Ammonium Nitrate bulka bags.
Other	Yes	SSAN	Transport	A vehicle transporting ammonium nitrate had a set of dual wheels break away. The vehicle combination remained upright and there was no spillage of load.
Other	Yes	Blasting	Import	A container was being prepared to be de-stuffed at a magazine when it was apparent that a number of pallets inside the container had collapsed. The load inside the container consisted of 10 pallets of boosters.
Product failure	Yes	Fireworks	Fireworks	A fireworks contractor fired a 16" Aerial Shell, the shell fell to the ground and subsequently exploded on contact. The shell caused grass fires that were extinguished by the operator. There were no injuries reported.

Nature of Harm	High Potential	Explosive type	Industry sector	Description
Spill	Yes	SSAN	Transport	A single-vehicle road accident occurred involving a prime mover at the entry to its depot. The prime mover and A trailer had overturned on its side. A spill of up to five tonnes of Ammonium Nitrate was reported to have leaked from the top fill points after the accident damaged the roof of the shipping containers. There were no injuries reported.
Complaint	No	Fireworks	Fireworks	A resident called stating ash flew into his yard from a nearby fireworks display.
Complaint	No	Fireworks	Community	A resident complained of illegal fireworks use at a residential property near Samford.
Complaint	No	Blasting	Mining	A resident of Kin Kin complained about the lack of fencing at a nearby quarry being a risk to horse riders on the Noosa Trail.
Complaint	No	Fireworks	Community	A resident complained of illegal fireworks use at a residential property near Samford. The resident was concerned for her horses as they were startled and injured themselves.
Complaint	No	Fireworks	Community	A resident complained of illegal fireworks use at a residential property in Capalaba.
Complaint	No	Fireworks	Community	A resident complained of illegal fireworks use at a residential property in Jimboomba.
Complaint	No	Fireworks	Fireworks	A college conducted a fireworks display without any notification to the immediate neighbours. The college apparently has had fireworks on several occasions.

Nature of Harm	High Potential	Explosive type	Industry sector	Description
Complaint	No	Blasting	Mining	A shot was conducted at a quarry. The blast resulted in several complaints of noise and vibration.
Complaint	No	Fireworks	Fireworks	A resident complained that they were not informed of a fireworks display that occurred in the neighbourhood.
Complaint	No	Blasting	Mining	A complaint was received stating a mine superintendent had failed to inform drill and blast crew that the emergency access to the pit would be closed when they were charging at the bottom of the pit.

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Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | February 2012

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives	None		None reported for the month.
Theft of explosives	None		None reported for the month.
Other		Unknown	An explosives Mobile Manufacturing Unit operator offered to sell an unauthorised person a quantity of explosives.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	70 misfires reported: One due to column dislocation, two lead in lines cut and one failure to hook in. Other causes not known.
Fume Event	Yes	Blasting	Mining	Two level 4 fume events were generated. There were no exposures reported.
Breach of Exclusion Zone	Yes	Blasting	Mining	A field fitter went straight through a blast entry sign and gate and into a blast area. The shot firer has seen this and called up the fitter to stop. The fitter was then escorted back off the shot.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Other	Yes	Blasting	Mining	A heavy vehicle drove over 2 control lines at a shot site. One control line was cut and the other kinked.

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Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | March 2012

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives	None		None reported for the month.
Theft of explosives	None		None reported for the month.
Recovered explosives	Blasting	1	While sorting through material at a scrap metal yard, an excavator operator found a cartridge of explosive.
	Blasting	1	A booster was recovered during mucking out at a mine site.
Other	None	Not applicable	An excavator operator from a scrap metal yard picked up a padlocked rusty steel box which had the words "Explosives" written on the lid which was later found to be empty.
	Blasting	Unknown	Unsecured primers with detonators were found down blast holes on a shot area.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	61 misfires reported: One connector failed, two tie in failures, one control row cut, one column dislocation, two product failures and two down line leads cut. Other causes not known.
Flyrock	Yes	Blasting	Mining	Whilst firing a shot, flyrock struck a contractor's porta loo. The porta loo was outside the noted exclusion zone for stationary infrastructure. There were no injuries reported.
Flyrock	Yes	Blasting	Mining	An offset shot was fired which resulted in flyrock exceeding the equipment exclusion zone. A cable tractor received minor damage. There were no injuries reported.
Fume Event	Yes	Blasting	Mining	Three level 3 fume events were generated. There were no exposures reported.
Fume Event	Yes	Blasting	Mining	A level 4 fume event was generated. There were no exposures reported.
Fume Event	Yes	Blasting	Mining	A level 1 fume event was generated. There were two exposures reported. No long term health effects are expected.
Fume Event	Yes	Blasting	Mining	A fume event was generated. There were no exposures reported.
Product failure	Yes	Fireworks	Fireworks	There was a malfunction of a ground item at a fireworks display.
Product failure	Yes	Blasting	Manufacture	An audit at a manufacturing plant has identified a fault in a batch of surface connectors where the nonel signal may not communicate to the connector detonator. The manufacturer has contacted the mine site and all holdings have been quarantined.
None	Yes	Blasting	Transport	During an unloading operation by Magazine staff, it was identified that two pallets of boosters had fallen over during

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
				transportation.
None	Yes	Blasting	Transport	Whilst unloading a container of 400 gram boosters, the operating forklift struck the bottom row of booster boxes. There was no damage to the product.
None	Yes	Blasting	Manufacture	There was a Snap and Shoot of a signal tube during production at a factory.
None	Yes	Blasting	Mining	A mobile manufacturing unit reversed over downlines and a fully loaded hole. There were no injuries reported.
None	Yes	Blasting	Transport	Two explosives trucks were parked in close proximity to each other which is in breach of legislation.
None	Yes	Blasting	Mining	At a mine site, a gassed product was dumped on the surface and inadvertently fed with additional gasser solution and a reaction started. The Shotfirer on site dealt with the issue by using water and covering the product with soil.
Breach of Exclusion Zone	Yes	Blasting	Mining	Union representatives at a construction blasting site insisted on entering the exclusion zone to inspect the shot.
Spill	Yes	ANFO	Transport	An employee of an explosives company was unloading six pallets of ammonium nitrate fuel oil from a trailer/carry box of a transport vehicle when the top bags on two pallets became dislodged and tipped over partially spilling the contents of one bag.
Spill	Yes	Blasting	Transport	An explosives transport vehicle arrived at a Government Reserve when product spilled off their pallets after the securing straps broke.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Spill	Yes	Blasting	Transport	During the unloading of a semi trailer load of explosives, it was noticed by the Magazine Keeper that there was a spillage of AMEX. Further inspection revealed that 5 bags of AMEX had slid down the side of a pallet of boosters and one of those bags split emptying its contents onto the floor of the truck.
Damage to product	Yes	Blasting	Transport	Whilst unpacking a container of 400 gram boosters, it was noted by a magazine keeper that the outer package of a single box had sustained damage which allowed a single booster to be exposed and shatter.
None	No	Blasting	Mining	A shot had commenced loading but due to the inclement weather conditions, the firing of this shot did not occur. Industrial strike action then prevented the shot from being fired.
Complaint	No	Blasting	Mining	A complaint was received about an overpressure and vibration incident over 4 years ago. The complainant has been negotiating with the mine throughout that time.

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Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | April 2012

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives	None		None reported for the month.
Theft of explosives	None		None reported for the month.
Unsecured explosives	Blasting	1	Explosives were left on a transport vehicle at a mine site which was discovered when the vehicle was being serviced.
	Blasting	7	Explosives were found by persons fishing in a creek on the outskirts of Roma.
	Blasting	Unknown	A shotfirer parked his vehicle at a mine administration building. The vehicle was left unattended and the carry boxes containing explosives were not locked. The keys were in the ignition and there was no explosives placarding displayed on the vehicle.
	Blasting	1	A loaded shot at a quarry was left unguarded.
Other		5kg	Approximately 5kg of Ammonium Nitrate Fuel Oil was discovered during mucking out at a mine site. There were no detonators or boosters present.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	47 misfires reported: Two holes slumped, seven column dislocations, one product failure, one failure to load and one unrecovered leads. Other causes not known.
Breach of Exclusion Zone	Yes	Blasting	Mining	An engineer was located inside a blast area and ran across a lead in line with his vehicle. The lead was inspected and the engineer was asked to leave the area.
Fume Event	Yes	Blasting	Mining	A level 4 fume event was generated. There were no exposures reported.
Fume Event	Yes	Blasting	Mining	A fume event was generated. There were no exposures reported.
None	Yes	Blasting	Mining	A shovel operator uncovered the top half of a blast hole containing Ammonium Nitrate Fuel Oil on a mine site. The shovel operator stopped digging and moved away from the dig face.
None	Yes	Blasting	Mining	A helicopter was flying at a low altitude over a mine site. There was no blasting activity booked in for the day.
None	Yes	SSAN	Manufacture	An emulsion manufacturing plant was shut down due to an employee identifying discolouration on a boiler. It is not known at this stage what caused the incident.
None	No	Blasting	Transport	An explosives transport driver exited a government reserve gate without following the correct protocol. This driver is not in possession of a gate swipe-card at present but has been inducted.
Complaint		Fireworks	Community	A resident complained of illegal fireworks use in Parkhurst.
Complaint		Fireworks	Community	A resident complained of illegal fireworks use in Samford.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Complaint		Fireworks		A resident complained of excessive noise during a fireworks display which resulted in his animals being stressed. He was not notified of the fireworks display.

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Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | May 2012

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives	Blasting	1	A missing booster was discovered when a contractor was handed a box of boosters to inspect and she identified that the contents of the box sounded loose and rattly.
Theft of explosives	None		None reported for the month.
Unsecured explosives	None		None reported for the month.
Other	None	n/a	The keys to an explosives magazine were lost but were later found in the padlock on the door of the magazine.
	None	n/a	A shotfirer discovered that his site access security key to an explosives compound was missing.
	Blasting	4	There were 4 boosters and leads unaccounted for at an explosives magazine.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	39 misfires reported: Three due to product failure. Other causes not known.
Fire	Yes	Ammunition	Community	A house fire was reported in Gladstone due to exploding ammunition.
Fire	Yes	SSAN	Transport	A prime mover carting SSAN had an engine fire which was extinguished by the driver. There were no injuries reported.
Flyrock	Yes	Blasting	Mining	Fly rock from a blast hit a crib hut and a bulldozer. The bulldozer was located in the blast exclusion zone. The crib hut was over two hundred metres outside the exclusion zone. Property damage only.
Flyrock	Yes	Blasting	Mining	Fly rock from a blast impacted on a crushing plant causing significant damage. There were no injuries reported.
Fume Event	Yes	Blasting	Mining	Three level 4 fume events were generated. There were no exposures reported.
Fume Event	Yes	Blasting	Mining	A level 5 fume event was generated. There were no exposures reported.
Fume Event	Yes	Blasting	Mining	A level 3 fume event was generated. A person outside of the Exclusion Zone presented himself as being exposed to fume. No long term health effects are expected.
Fume Event	Yes	Blasting	Mining	A level 4 fume event was generated. Fifteen exposures were reported. No long term health effects are expected
Fume Event	Yes	Blasting	Mining	Two level 3 fume events were generated. There were no exposures reported.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Fume Event	Yes	Blasting	Mining	A level 4 fume event was generated. There were three exposures reported. No long term health effects are expected.
Fume Event	Yes	Blasting	Mining	Two level 2 fume events were generated. There were no exposures reported.
None	Yes	SSAN	Transport	A prime mover carrying Class 5.1 Ammonium Nitrate was separated from its "A" and "B" trailers. The "A " Trailer dropped to the roadway with no apparent damage recorded.
Complaint	No	Blasting	Mining	An employee of a heritage listed church felt blasts about five times over the last four or five weeks. The employee is worried as the Church is over 150 years old and sits on the top of the mine and doesn't have very modern foundations.
Complaint	No	Fireworks	Community	A complaint was received that someone in NSW was selling flower candles. The product was seized and the supplier was identified as a Queensland supplier.
Complaint	No	Fireworks	Community	A person complained of a considerable amount of fireworks debris after a fireworks display both on the beach where the fireworks were conducted and parts of the nearby dunes. Some pieces of debris were still being located in the sand over the next three mornings.

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Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | June 2012

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives	None		None reported for the month.
Theft of explosives	None		None reported for the month.
Unsecured explosives	None		None reported for the month.
Other	SSAN	2kg	A spill of ammonium nitrate prill was found behind a hotel. The owner of the ammonium nitrate is unknown.
	SSAN	15kg	A quantity of ammonium nitrate prill was discovered at a heavy vehicle parking bay at a road house by reserve staff. The owner of the ammonium nitrate is unknown.
	Blasting	1 box	While unloading empty pallets from an explosives transport trailer, a full box of boosters was found to be contained in shrink wrap under a pallet. The boosters had been consigned to a mine site. The boosters had been sitting in the trailer undetected for approximately 2 weeks.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	20 misfires reported. One failure to tie in, one hole liner failure, two column dislocations and one cut lead in lines.
Fume Event	Yes	Blasting	Mining	Two level 4 fume events were generated. No exposures were reported.
None	Yes	Blasting	Transport	An operator of an explosives transport vehicle was reversing and backed into a stationary concrete agitator truck. The impact of the collision punched a hole in the explosives transport box. Explosives were contained in the transport box.
Spill	Yes	Blasting	Transport	An explosives transport driver was unloading ammonium nitrate emulsion into a site storage tank and turned on the incorrect discharge valve on the pump and did not notice a spill until up to 5 tonne had been discharged.
Spill	Yes	Blasting	Transport	It was noticed that ammonium nitrate fuel oil was spilt from its bags upon return to a Reserve. The driver opened the rear door of his trailer and it could be seen that a forklift had punctured at least 2 bags on the pallet. Upon further inspection it was verified that 3 bags had been damaged.
Spill	Yes	Blasting	Transport	A subcontractor had vehicle mechanical failure causing the loss of a small amount of ammonium nitrate prill. The driver plugged the hole where the product escaped and repaired the primary system and continued on to his destination.
Complaint	Yes	Blasting	Mining	A resident had concerns about orange fume from a blast at a nearby mine site as the fume cloud had travelled along a public roadway and enveloped a car travelling along the roadway.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Complaint	No	Blasting	Mining	A complaint was received about operations at a mine site which is affecting local properties.
Complaint	No	Fireworks	Community	A complaint was received about illegal fireworks use at a nearby property.
Complaint	No	Blasting	Mining	A complaint was received in relation to blasting activities at a quarry. The concerns were over the expansion of the quarry, flyrock and ground vibration.
Complaint	No	Blasting	Mining	A complaint was received about dynamite exploding in nearby hills causing a mini earthquake and is believed the activities are being undertaken without a permit.
Complaint	No	Fireworks	Community	A person has complained that every second weekend a local fireworks display causes stress to her domestic pets due to excessive noise.
Complaint	No	Fireworks	Community	A complaint was received about debris from a local fireworks display entering their property and that there was no notification of the display.

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Explosives Inspectorate

July 2012 Report

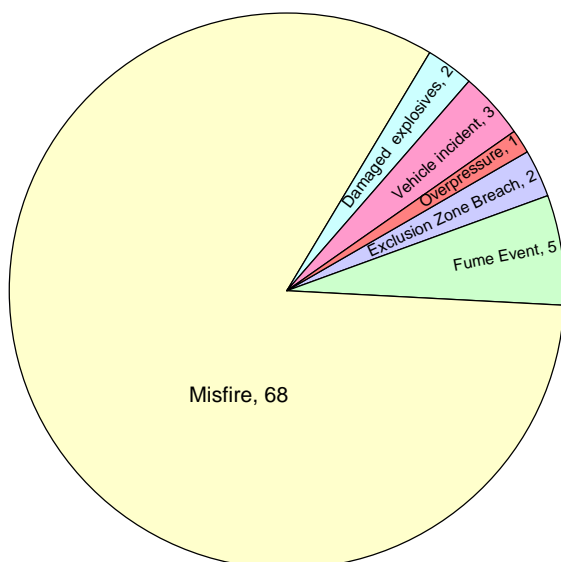
Explosives incidents and complaints



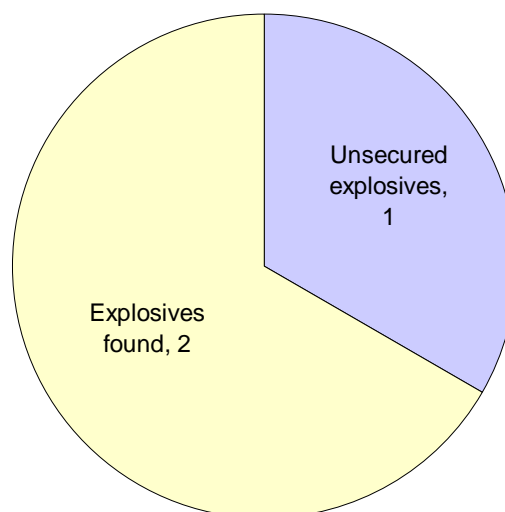
This document lists all explosives safety and security incidents and complaints reported in the month of July 2012 and includes a summary for the past year. This document includes any injuries or fatalities.

<u>Fatalities 2012</u>	<u>Injuries 2012</u>
July: 0	July: 0
January – June: 0	January – June: 1

Explosives Safety Incidents July 2012



Explosives Security Incidents July 2012

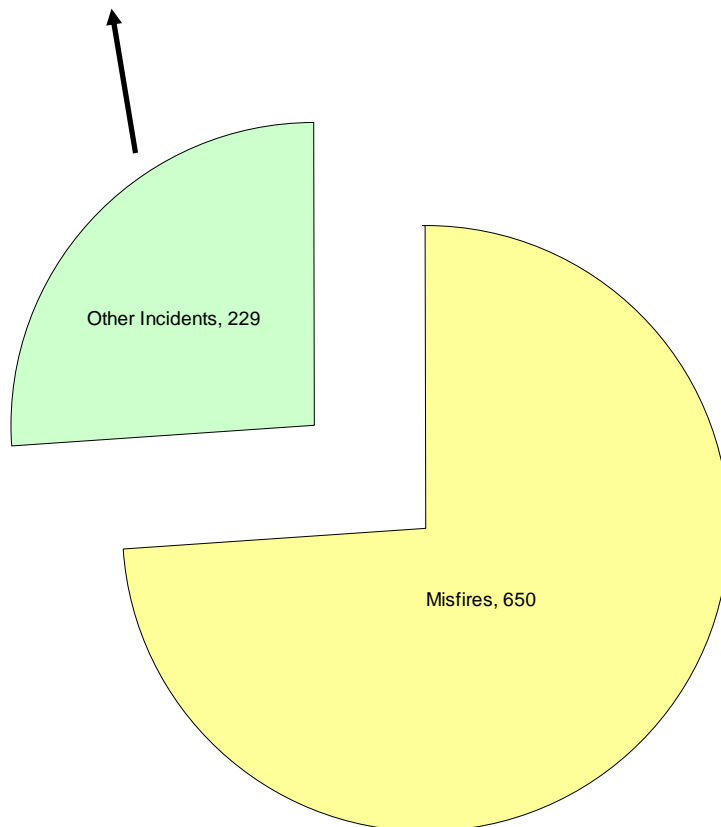
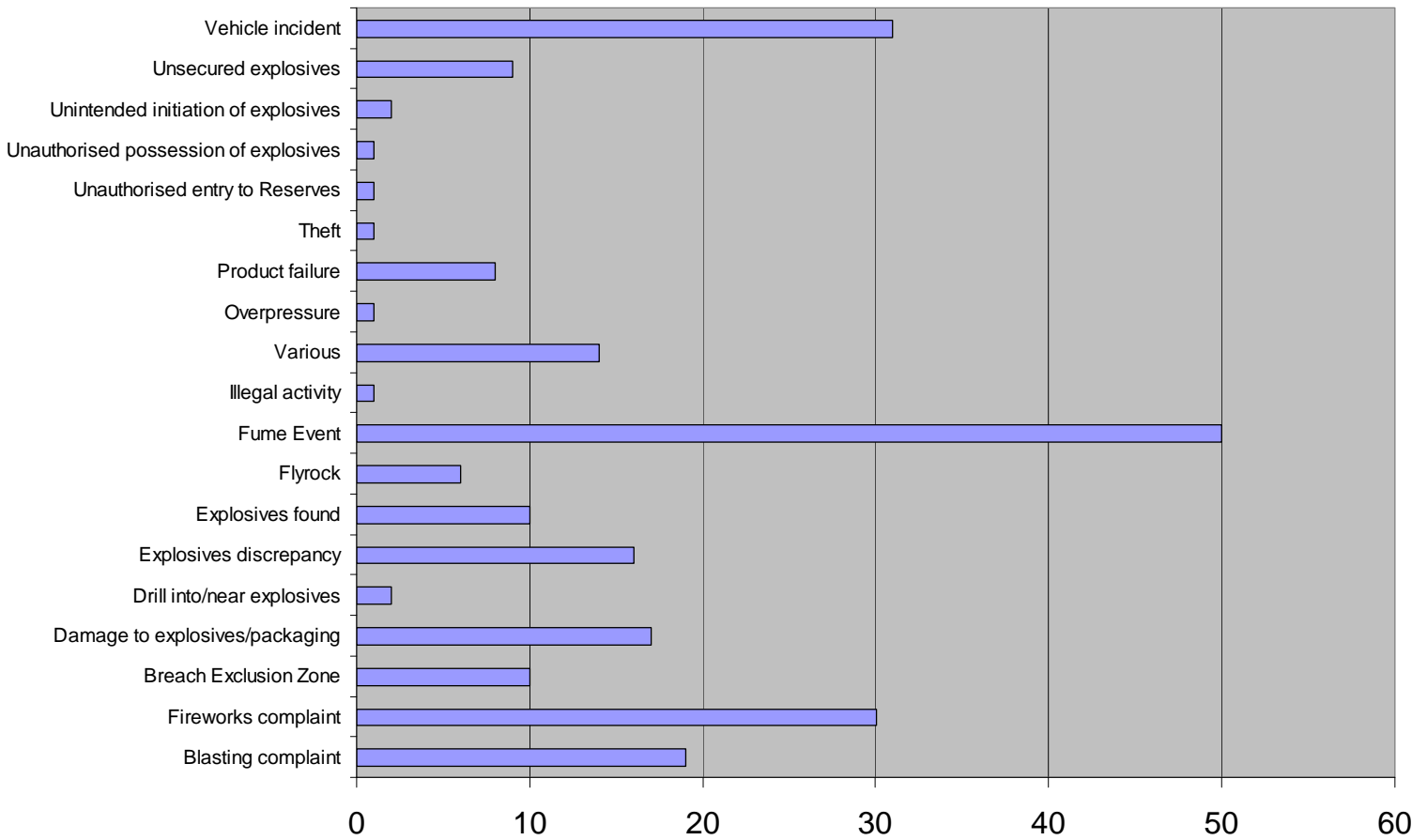


Explosives Complaints July 2012



Past year incidents September 2011 - August 2012

Other Incidents (229)



Security

Description	Explosives involved
Explosives found (2 incidents)	
An excavator driver unearthed an explosive on the bench after a blast.	1 live booster
Explosives were found on the ground at an explosives magazine compound.	4 electric detonators
Unsecured Explosives (1 incident)	
Explosives were left on a shotfirer's vehicle overnight.	34 downline detonators

Safety

Mining

Description	Explosives involved	Outcome
Misfires (68 incidents)		
1 connector failure 2 bulk product failures 1 downline cut during stemming 1 hole slump Other causes unknown	Blasting explosives	No adverse outcome (High Potential Incident)
Fume Events (5 incidents)		
A level three fume event was generated that breached the blast exclusion zone and fume management zone.	Blasting explosives	6 exposures - no long term health effects are expected.
A level four fume event was generated that breached the blast exclusion zone.	Blasting explosives	No exposures or injuries
2 level three fume events were generated that breached the blast exclusion zone.	Blasting explosives	No exposures or injuries
A level five fume event was generated reducing to a level three as it breached the blast exclusion zone.	Blasting explosives	No exposures or injuries
Vehicle Incident (2 incidents)		
A shotfirer's ute loaded with explosives reversed into a parked laden mobile processing unit.	Blasting explosives	No injuries. Property damage to vehicles only
A heavy vehicle tipper combination unloading explosives lost stability causing it to roll onto its side losing the entire load.	Ammonium nitrate prill	No injuries or property damage.
Breach of Exclusion Zone (2 incidents)		
A contractor breached a blast exclusion zone through an access road that was not identified on the blast plan at a mine site.	Blasting explosives	No adverse outcome
A bulldozer gained access onto a loaded shot site at a mine as there was no barrier in place.	Blasting explosives	No adverse outcome
Damage to explosives/packaging (1 incident)		
A mobile manufacturing unit cut the corner on a shot at a mine and entangled a downline on a loaded blast hole which severed the downline	Blasting explosives	No adverse outcome
Overpressure (1 incident)		
An exceedance of overpressure limits on a blast occurred at a mine site.	Blasting explosives	No complaints

Transport

Description	Explosives involved	Outcome
Vehicle Incident (1 incident)		
A prime mover with a B Double semi trailer jack-knifed on a highway after changing lanes to overtake a truck and had to brake suddenly when the vehicle in front slammed on the brakes.	500kg of ammonium nitrate residue	No injuries
Damage to explosives/packaging (1 incident)		
While unloading explosives from a vehicle, the operator noticed that it was contaminated. Further investigation discovered that the contaminate was gasser solution.	Ammonium nitrate	No injuries

Complaints

Description	Explosives involved	Outcome
Fireworks (2 incidents)		
A complaint was received about illegal fireworks use at a residential property.	Fireworks	No adverse outcome
A complaint was received about a fireworks display which they weren't notified of which caused fireworks debris to land in her property.	Fireworks	No adverse outcome
Blasting - Construction (2 incidents)		
A complaint was received about blasting occurring 2 to 3 times a day that shakes their windows. There has been no notification of these blasts.	Blasting explosives	No adverse outcome
A person from a local church expressed concerns about potential damage to the Heritage listed Church from blasting occurring at a nearby construction site.	Blasting explosives	No adverse outcome
Mining (1 incident)		
A complaint was received regarding the health and safety obligations of an explosives company they used to work for.	n/a	No adverse outcome

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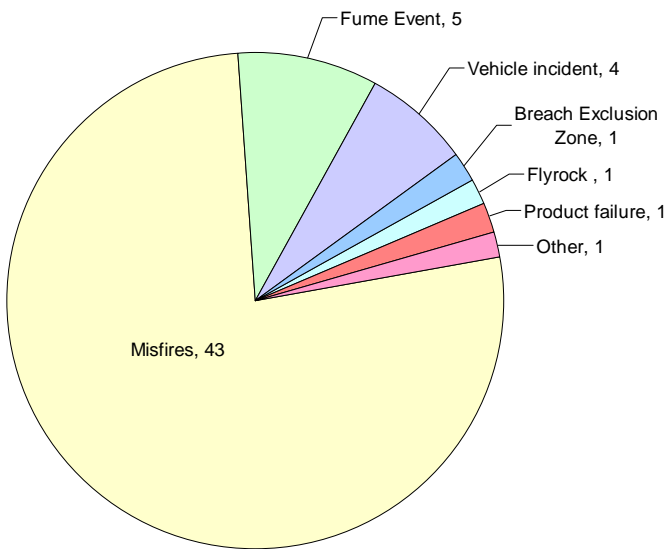
Explosives Inspectorate August 2012 Report Explosives incidents and complaints



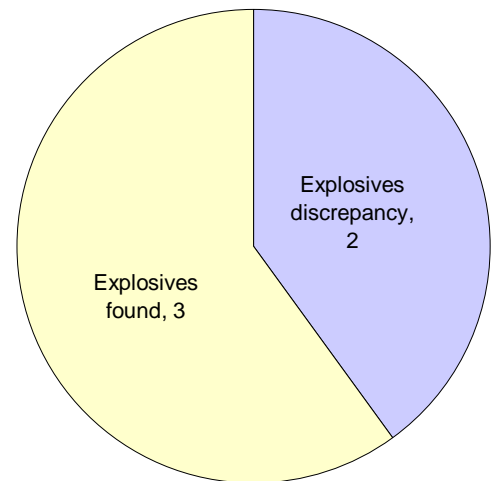
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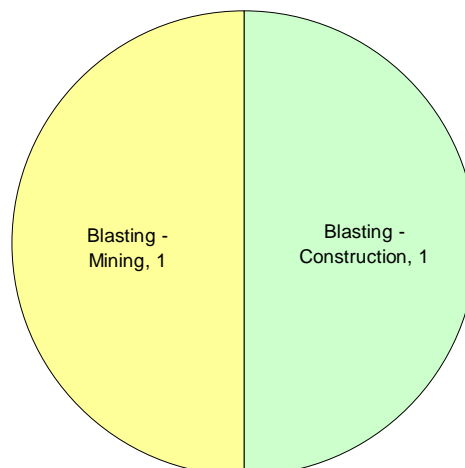
Explosives Safety Incidents August 2012



Explosives Security Incidents August 2012

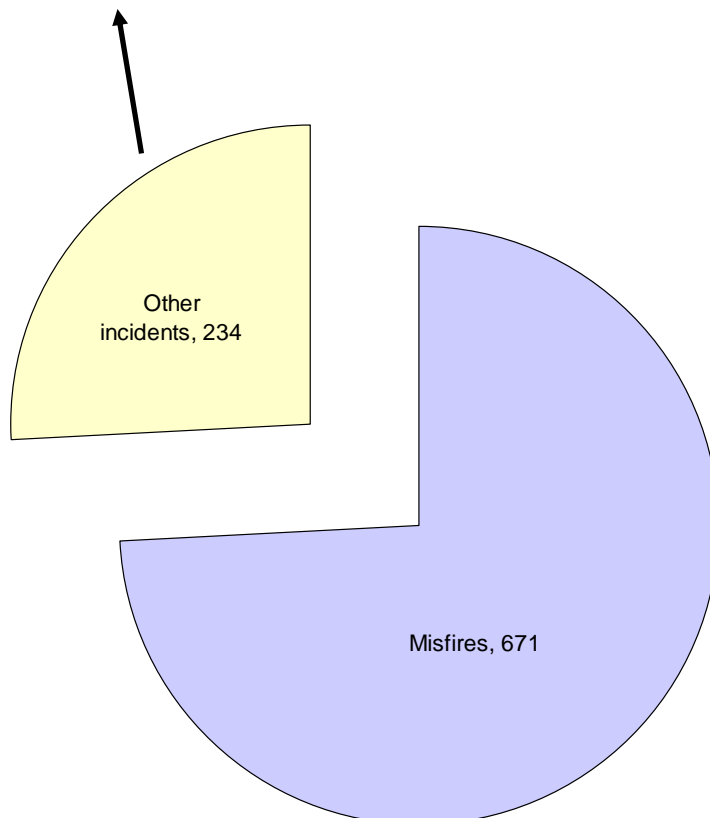
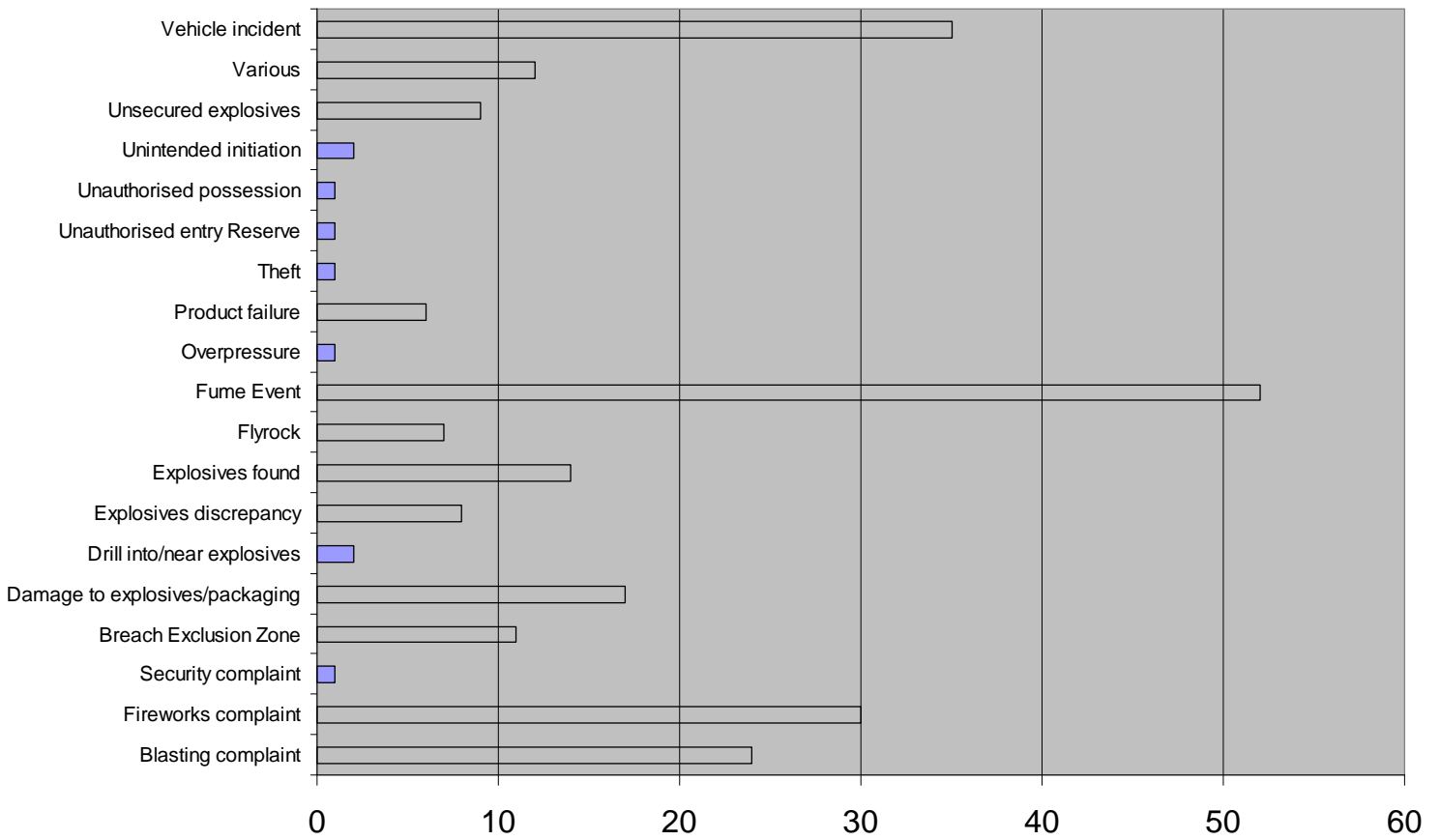


Explosives Complaints August 2012



Past year incidents September 2011 - August 2012

Other incidents (234)



Security

Description	Explosives involved
Explosives discrepancy (2 incidents)	
During reconciliation of stock for a blast, a discrepancy was discovered.	2 detonators 2 boosters
An explosive was located in a Prime Safe during the tie-up of a shot	1 detonator
Explosives found (3 incidents)	
A detonator was found in a canvas bag stuck and jammed in a charge car boom at a mine site.	1 live detonator
Explosives were found on a bench post shot blast at a mine site believed to have been left there by a trainee shotfirer.	1 roll of lead in line
Explosives were found in a grader rill whilst the vehicle was grading an area near an explosives magazine.	4 x 400g boosters

Safety

Mining

Description	Explosives involved	Outcome
Misfires (43 incidents)		
3 column dislocation 2 improper tie-in 1 loading method (when stemming cut line) Other causes unknown	Blasting explosives	No adverse outcome (High Potential Incident)
Fume Events (5 incidents)		
A level 5 fume event was generated that breached the fume management zone.	Blasting explosives	No exposures or injuries
A level 5 fume event was generated that breached the fume management zone where it had dissipated to level 1.	Blasting explosives	No exposures or injuries
A level 3 fume event was generated that breached the blast exclusion zone.	Blasting explosives	No exposures or injuries
A possible fume exposure was reported after two mine workers smelt something unusual after a blast in their crib hut.	Blasting explosives	No exposures or injuries
A level 5 fume event was generated but dissipated inside the exclusion zone without incident.	Blasting explosives	No exposures or injuries
Vehicle Incident (1 incident)		
A mobile manufacturing unit auger collided with another mobile manufacturing unit hitting the cab door.	Blasting explosives	Property damage, no injuries
Breach of Exclusion Zone (1 incident)		
A bulldozer and digger were damaged within the blast exclusion zone when wall face collapsed following a blast.	Blasting explosives	Property damage, no injuries
Flyrock (1 incident)		
During blasting operations at a mine site, a Manitou was damaged by flyrock from secondary blasting.	Blasting explosives	Property damage, no injuries

Transport

Description	Explosives involved	Outcome
Vehicle Incident (3 incidents)		
During the transport of ammonium nitrate, a one tonne bag split causing a spill on the B trailer of a prime mover with some of the product going on the road.	Blasting explosives	No injuries
A report was received that explosives were leaking from the auger section of a mobile manufacturing unit travelling along a public road.	Blasting explosives	The leaking material was residual water contained within the product storage vessel.
A heavy vehicle struck the entrance bollard of a Government explosives reserve while transporting ammonium nitrate.	Blasting explosives	Property damage, no injuries

Fireworks

Description	Explosives involved	Outcome
Product failure (1 incident)		
During the opening event of a television show, a firework caught fire.	1 x close proximity firework	No injuries
Other (1 incident)		
During a fireworks display a small piece of ash wafted into the spectator area and lodged in a young person's eye.	Fireworks	No injury to the eye

Complaints

Description	Explosives involved	Outcome
Blasting - Construction (1 incident)		
A complaint was received that blasting activities are being conducted at a nearby residential development without residents being notified.	Blasting explosives	No adverse outcome
Blasting – Mining (1 incident)		
A complaint was received about blasting occurring near a quarry resulting in loud noise and vibrations.	Blasting explosives	No adverse outcome

Authorised by **Geoff Downs** | Chief Inspector of Explosives

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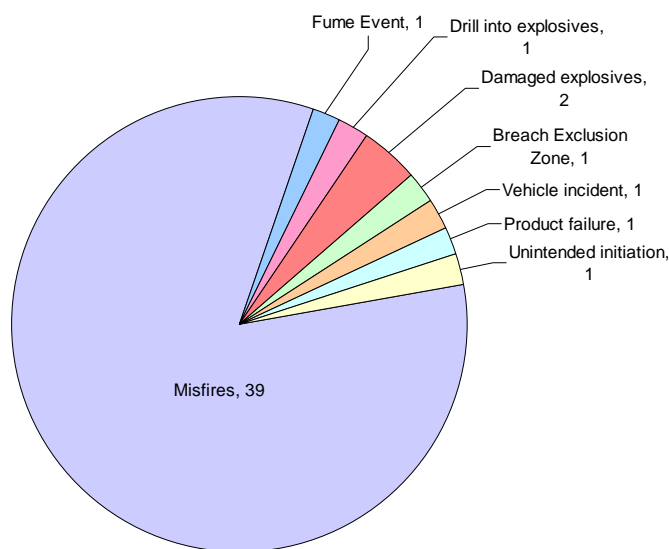
Explosives Inspectorate September 2012 Report Explosives incidents and complaints



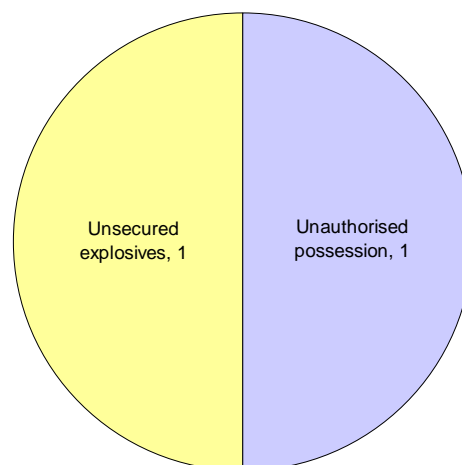
This document lists all explosives safety and security incidents and complaints reported in the month of September 2012 and includes a summary for the past year. This document includes any injuries or fatalities.

<u>Fatalities 2012</u>	<u>Injuries 2012</u>
September: 0	September: 1
January – August: 0	January – August: 1

Explosives Safety Incidents September 2012



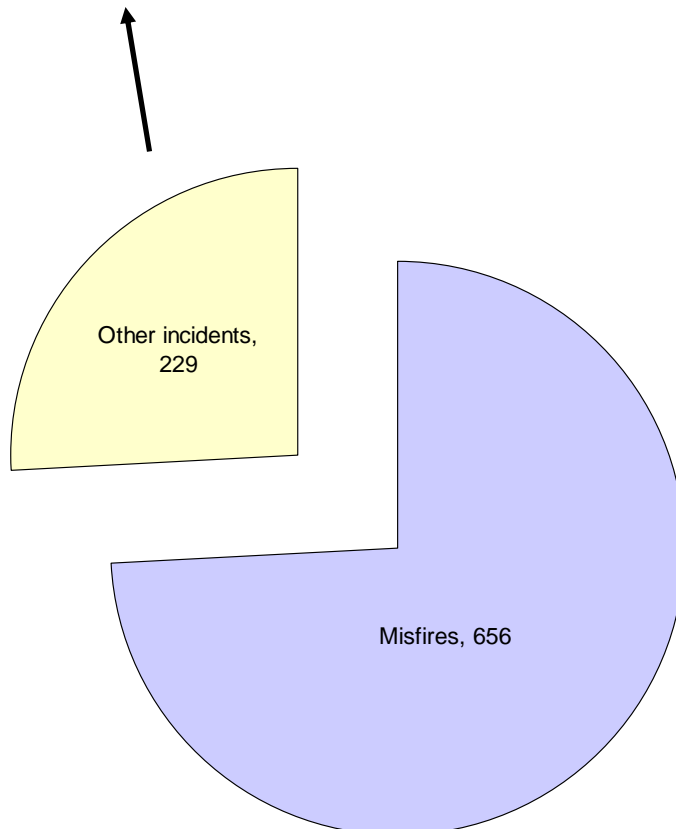
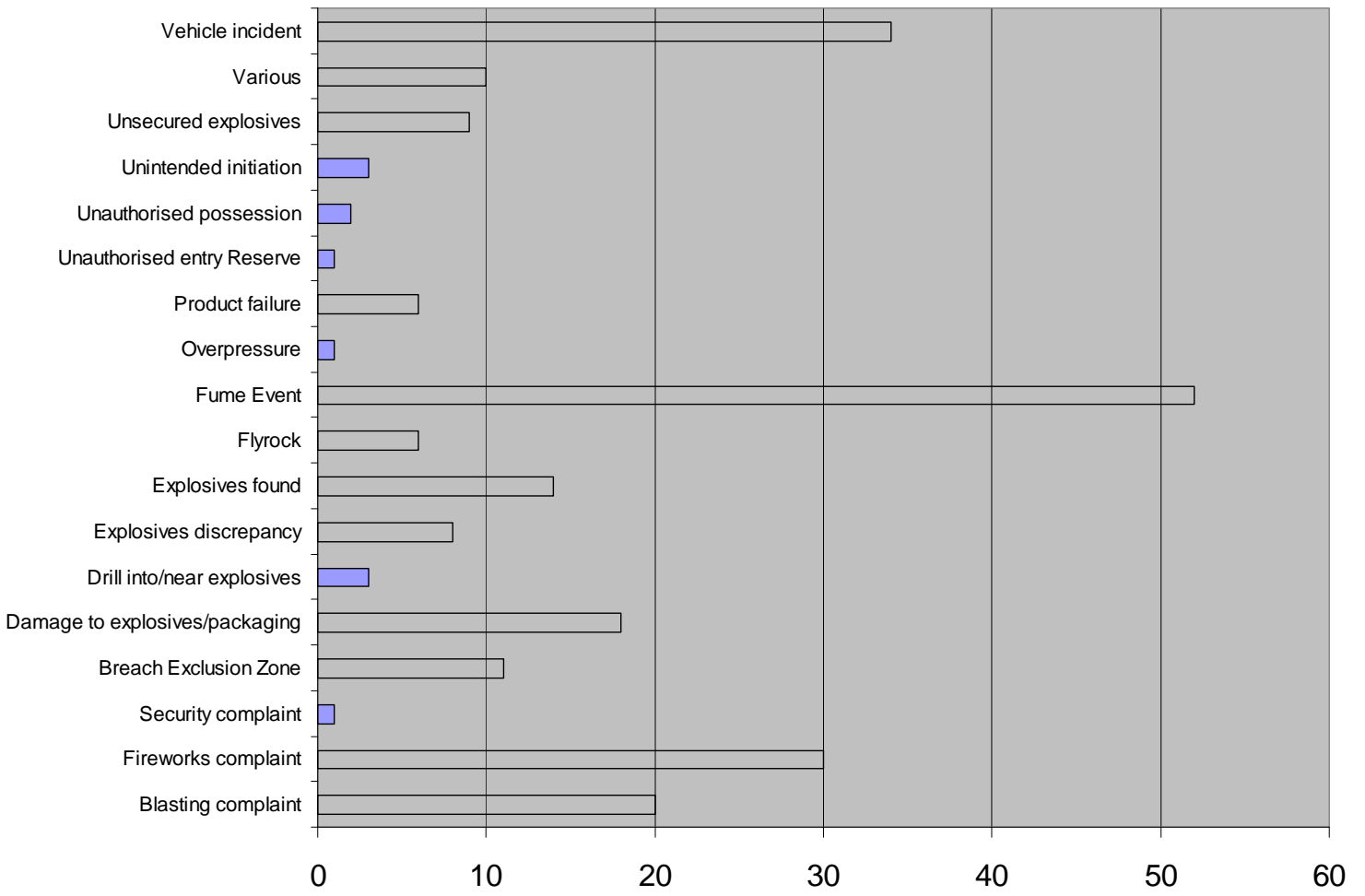
Explosives Security Incidents September 2012



Explosives Complaints September 2012



Past year incidents October 2011 – September 2012



Breakdown of incidents for September 2012

Security

Description	Explosives involved
Unauthorised possession (1 incident)	
A report was received from police that a person was in possession of fireworks and was firing them at a residence without the appropriate authority.	Fireworks
Unsecured explosives (1 incident)	
A reload compound at a mine site was found to be unlocked during night shift.	Ammonium nitrate

Safety

Mining

Description	Explosives involved	Outcome
Misfires (39 incidents)		
2 dislocation of column 1 improper tie-in 2 loading method (when stemming cut line) 1 initiation system failure Other causes unknown	Blasting explosives	No adverse outcome (High Potential Incident)
Fume Events (1 incident)		
A level 4 fume event was generated breaching the blast exclusion zone at level 1.	Blasting explosives	No exposures or injuries
Drill into/near explosives (1 incident)		
A drill rig broke through into a charged hole at a mine site.	Blasting explosives	No adverse outcome (High Potential Incident)
Damage to explosives/packaging (1 incident)		
A stemming loader ran over a booster at a mine site.	Blasting explosives	No adverse outcome (High Potential Incident)
Breach Exclusion Zone (1 incident)		
A service truck drove onto a drill bench without confirmation and entered the blast loading zone.	Blasting explosives	No adverse outcome (High Potential Incident)

Transport

Description	Explosives involved	Outcome
Damage to explosives/packaging (1 incident)		
While unloading explosives from a truck, it was noticed that the bottom row of boxes on 3 pallets had been damaged.	Detonators	No adverse outcome (High Potential Incident)
Vehicle incident (1 incident)		
A vehicle containing explosives was involved in a minor collision while being overtaken by a passenger vehicle.	Ammonium nitrate residue	No injuries, no loss of containment

Manufacture

Description	Explosives involved	Outcome
Product failure (1 incident)		

A rocket motor split during a test firing process.	Propellant rocket	No injuries (High Potential Incident)
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Community

Description	Explosives involved	Outcome
Unintended initiation (1 incident)		
A person has soaked marine flares in water for a week and then cut a flare with an angle grinder which ignited the flare and created an explosion.	Marine Flares	Serious burn injuries sustained

Complaints

Description	Explosives involved	Outcome
Fireworks (3 incidents)		
A complaint was received from a spectator of a fireworks display that the distance requirements should be increased as 5-10 dogs have gone missing in his neighbourhood.	Fireworks	No adverse outcome
A complaint was received about illegal fireworks use at a nearby residential property.	Fireworks	No adverse outcome
A complaint was received about a fireworks display that residents were not notified of that caused alarm to many residents and dogs. Concerns were also raised about the fireworks debris along the bay, beach and adjacent reserve that was not fully collected.	Fireworks	No adverse outcome
Blasting – Mining (1 incident)		
A complaint was received about fume from blasting activities at a neighbouring mine and the welfare of his cattle in addition to noise, dust and vibration.	Blasting explosives	No adverse outcome

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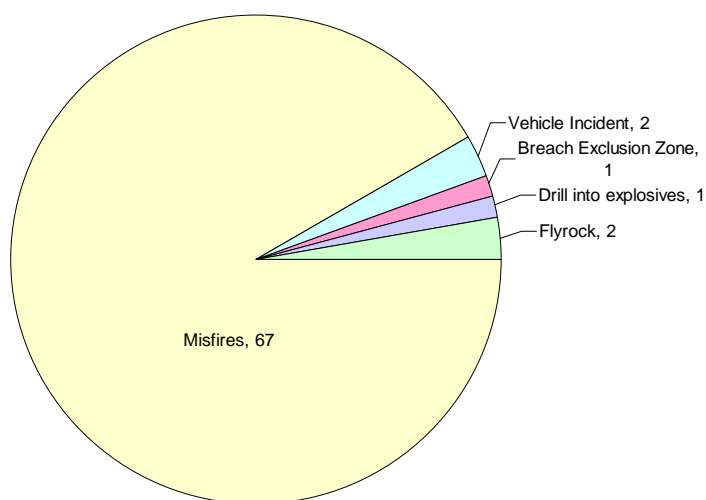
Explosives Inspectorate October 2012 Report Explosives incidents and complaints



This document lists all explosives safety and security incidents and complaints reported in the month of October 2012 and includes a summary for the past year. This document includes any injuries or fatalities.

<u>Fatalities 2012</u>	<u>Injuries 2012</u>
October: 0	October: 0
January – September: 0	January – September: 2

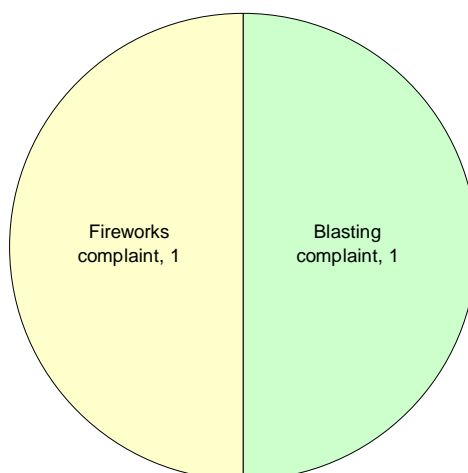
Explosives Safety Incidents October 2012



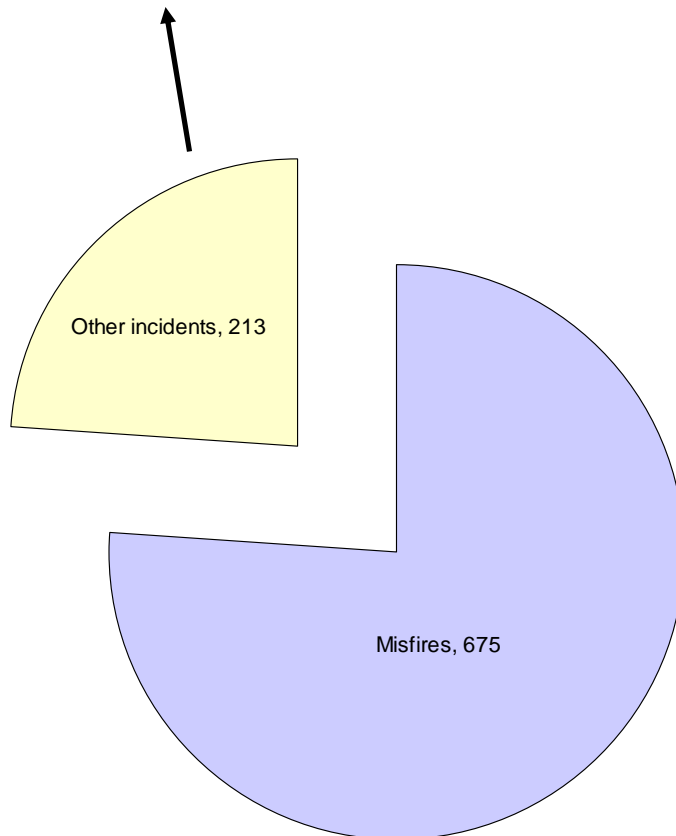
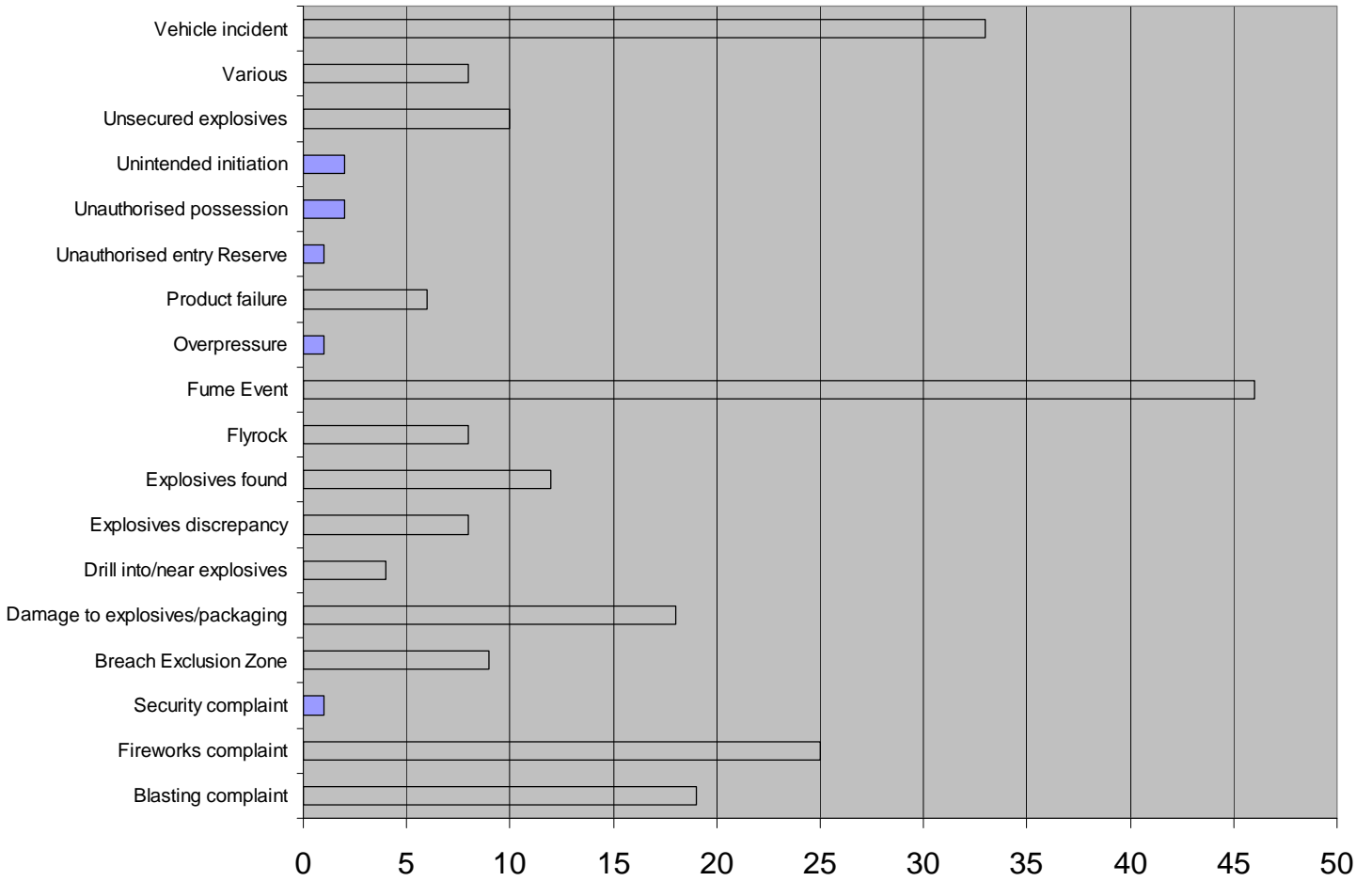
Explosives Security Incidents October 2012



Explosives Complaints October 2012



Past year incidents November 2011 – October 2012



Breakdown of incidents for October 2012

Security

Description	Explosives involved
Unsecured explosives (1 incident)	
Explosives fell off a shottirer vehicle onto a road at a mine site.	1 box of detonators

Safety

Mining

Description	Explosives involved	Outcome
Misfires (67 incidents)		
4 dislocations of column 10 initiation system failures 5 slumping of product 1 lead line cut by flyrock Other causes unknown	Blasting explosives	No adverse outcome (High Potential Incident)
Drill into/near explosives (1 incident)		
A drill rig drilled into a misfire at a mine site.	Blasting explosives	No injuries
Flyrock (2 incidents)		
Fly rock was reported from a quarry which hit 3 buildings and small pieces were thrown through the carpark of building grounds.	Blasting explosives	Property damage, no injuries
Fly rock from a blast was projected 350 metres which breached the equipment exclusion zone and broke 2 windows in a vacant dragline and also impacted a vacant grader.	Blasting explosives	Property damage, no injuries
Breach Exclusion Zone (1 incident)		
An excavator operator was left within the Blast Exclusion Zone on a coal and overburden shot.	Blasting explosives	No injuries (High Potential Incident)
Vehicle Incident (2 incidents)		
A booster and detonator were placed separately in light vehicle and transported to a magazine on a mine site.	Blasting explosives	No adverse outcome (High Potential Incident)
A truck had been taken to a workshop for maintenance and procedures were not followed with de-contamination and 3/4 tons of ammonium nitrate emulsion leaked out on the ground.	Blasting explosives	No adverse outcome (High Potential Incident)

Complaints

Description	Explosives involved	Outcome
Fireworks (1 incident)		
A complaint was received from a resident regarding the lack of notice given to her regarding a fireworks display conducted at a nearby college.	Fireworks	No adverse outcome

Description	Explosives involved	Outcome
Blasting – Mining (1 incident)		
A complaint was received from a resident about ground vibration as a result of blasting activities from a nearby quarry.	Blasting explosives	No adverse outcome

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Explosives Inspectorate November 2012 Report Explosives incidents and complaints

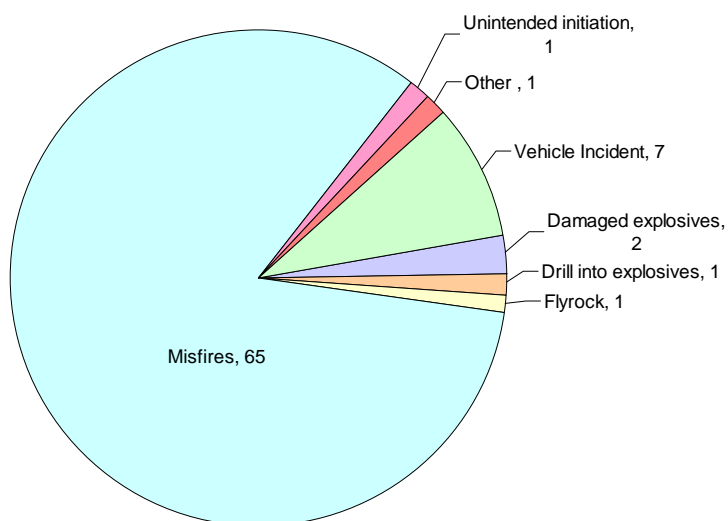


Explosives

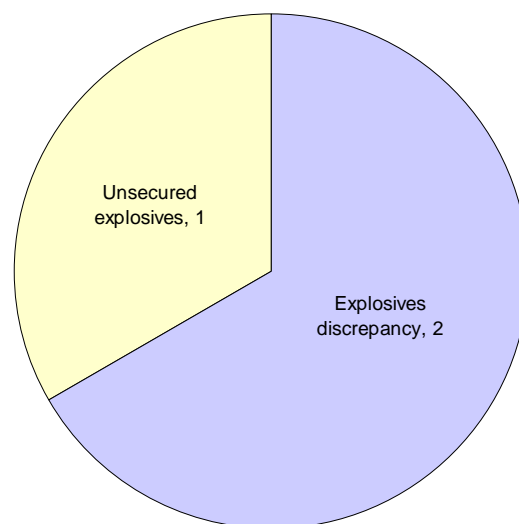
This document lists all explosives safety and security incidents and complaints reported in the month of November 2012 and includes a summary for the past year. This document includes any injuries or fatalities.

<u>Fatalities 2012</u>	<u>Injuries 2012</u>
November: 0	November: 0
January – October: 0	January – October: 2

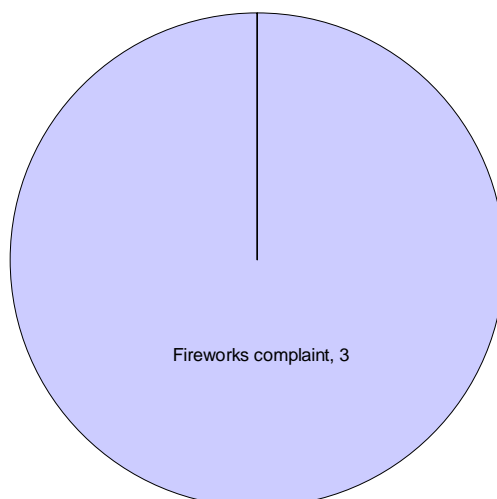
Explosives Safety Incidents November 2012



Explosives Security Incidents November 2012

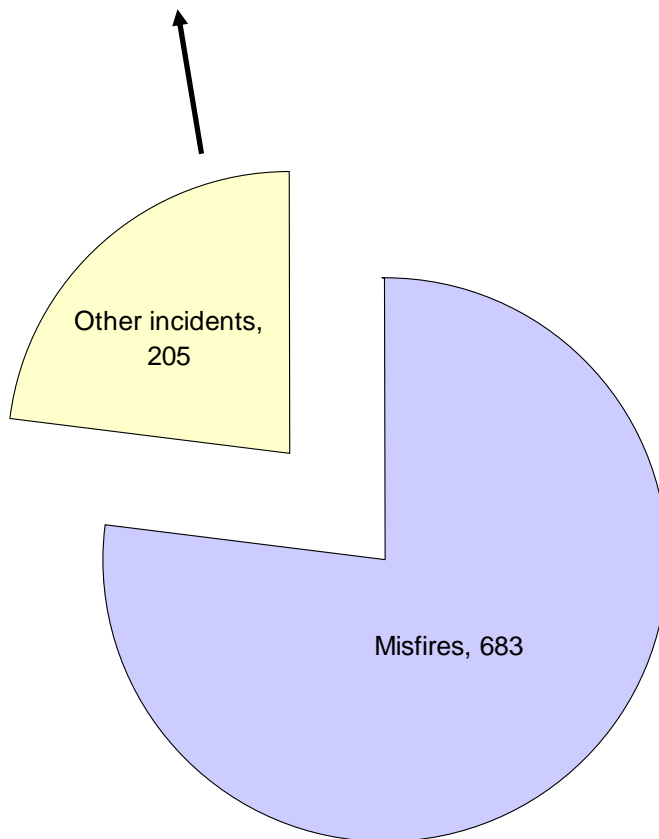
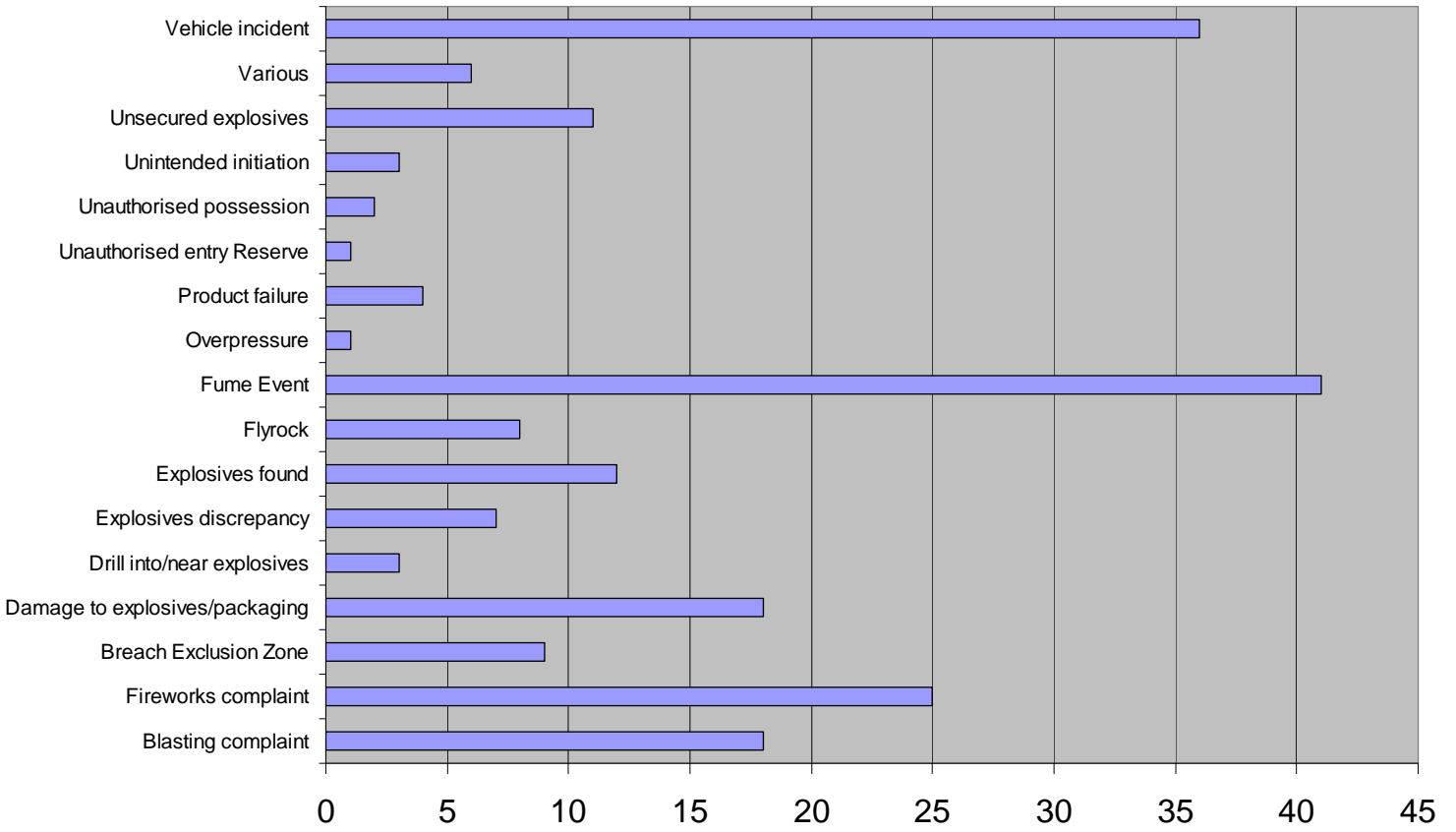


Explosives Complaints November 2012



Past year incidents December 2011 - November 2012

Other incidents (205)



Breakdown of incidents for November 2012

Security

Description	Explosives involved
Explosives discrepancy (2 incidents)	
It was identified following a magazine stocktake that 3 non-electric detonators were unaccounted for.	3 non-electric detonators
It was identified following a magazine stocktake that 10 cartridges of explosives were unaccounted for.	10 cartridges of emulsion
Unsecured explosives (1 incident)	
Boxes of explosives were inspected and, on opening of the container, it was noted that the manufacturer had not security sealed the lids of the boxes and explosives product could easily be removed.	Blasting explosives

Safety

Mining

Description	Explosives involved	Outcome
Misfires (65 incidents)		
7 dislocation of column 2 slumping of product 3 initiation system failure 1 explosives found while mucking out 1 loading method (when stemming cut line) 4 improper tie-in Other causes not known	Blasting explosives	No adverse outcome (High Potential Incident)
Vehicle Incident (4 incidents)		
A truck has reversed at low speed into a parked unoccupied loader.	Blasting explosives	Property damage, no injuries.
The operator of a charge car noticed smoke coming from under the main basket boom. The cause of the fire appears to be electrical.	Blasting explosives	Property damage, no injuries.
A fire was reported between two front left steer tyres, the cause of which is unknown.	Blasting explosives	No injuries
A transfer was started and the pump dead headed and the burst disc failed before the pressure trip could actuate. This caused a 10kg spill of emulsion.	Blasting explosives	No injuries
Damage to explosives / packaging (1 incident)		
A stemming truck chute released larger size coal stemming material into a hole and cut a downline.	Blasting explosives	No injuries
Drill into / near explosives (1 incident)		
A shovel has dug into a loaded shot exposing downlines.	Blasting explosives	No injuries (High Potential Incident)

Construction

Description	Explosives involved	Outcome
Flyrock (1 incident)		
A blast was conducted and flyrock breached the exclusion zone and projected rocks into the grounds of the nearby police station in close proximity to a police officer and two	Blasting explosives	Property damage (High Potential Incident)

other persons. A small piece of rock also came in contact with a motor vehicle parked in the compound.		
Unintended initiation (1 incident)		
An unplanned initiation of a seismic detonator occurred during transport on a site.	Blasting explosives	No adverse outcome (High Potential Incident)

Transport

Description	Explosives involved	Outcome
Vehicle Incident (3 incidents)		
A driver loading a road tanker with emulsion failed to open the inlet valve to the tank allowing back pressure to build in the transfer pipe which caused the internal burst disc to rupture.	Blasting explosives	No injuries
A driver started a transfer of emulsion into a ISO storage tank and left it unattended for a period of time. Upon his return he discovered that the transfer hose had become detached from the ISO tank and had spilt up to 4 tonne of emulsion.	Blasting explosives	Loss of explosives, no injuries
There was an electrical fire on a loaded tipper carrying SSAN.	SSAN	No injuries
Damage to explosives / packaging (1 incident)		
While unloading explosives, a hose failed spraying oil over the ammonium nitrate prill in the auger hopper.	SSAN	No injuries

Fireworks

Description	Explosives involved	Outcome
Other (1 incident)		
A firework fired lower causing embers in long grass which resulted in a fire.	Fireworks	No injuries, damage to bushland and property

Complaints

Description	Explosives involved	Outcome
Fireworks (3 incidents)		
A resident is concerned about regular fireworks displays in his local area that cause pollution, frightening of wildlife and aggravation to those who have served in times of war.	Fireworks	No adverse outcome
A noise complaint was lodged from a resident who claims that there was no notification or warning of a fireworks display which distressed his animals and as a result damaged fences on his property.	Fireworks	No adverse outcome
A noise complaint was received from a resident stating they received no notification of a fireworks display in the local area which distressed his dogs.	Fireworks	No adverse outcome

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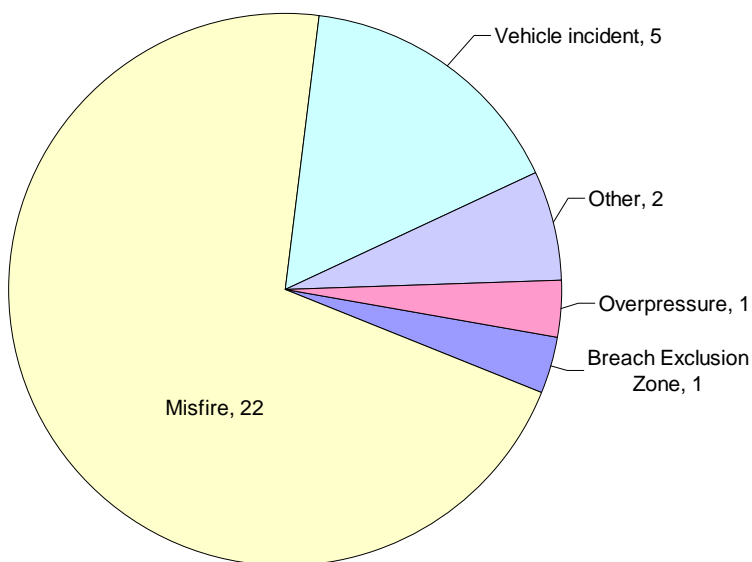
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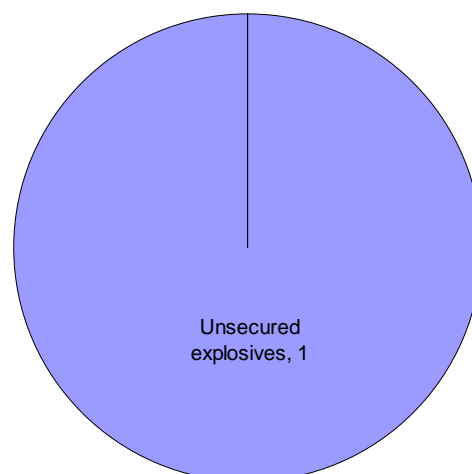
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<u>Fatalities 2012</u>	<u>Injuries 2012</u>
December: 0	December: 0
January – November: 0	January – November: 2

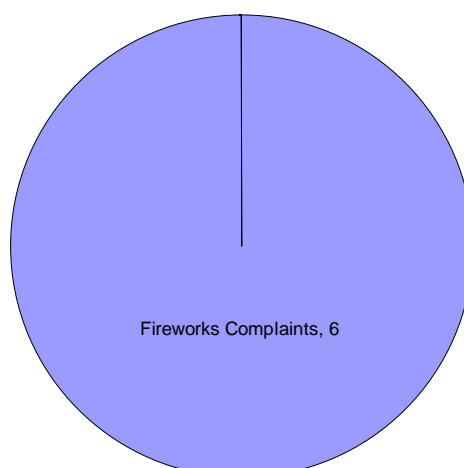
Explosives Safety Incidents December 2012



Explosives Security Incidents December 2012

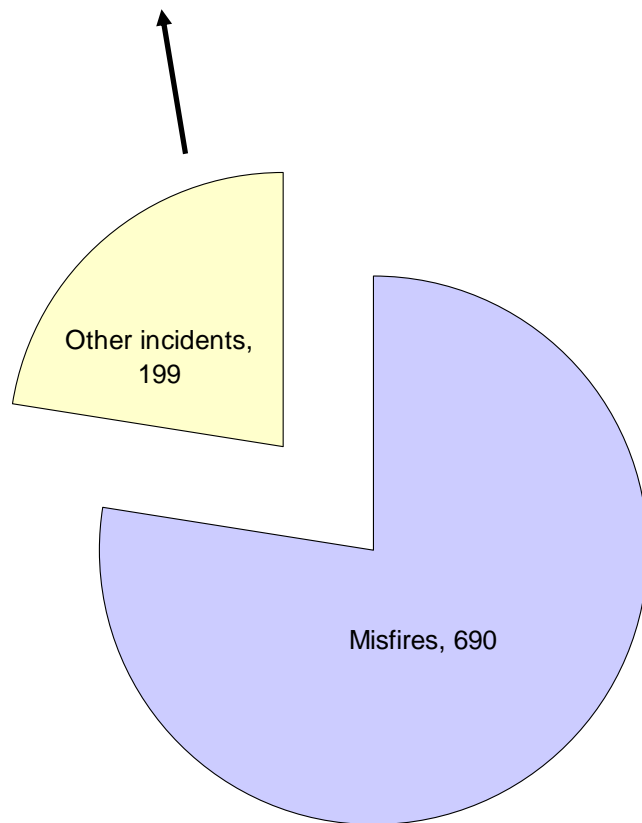
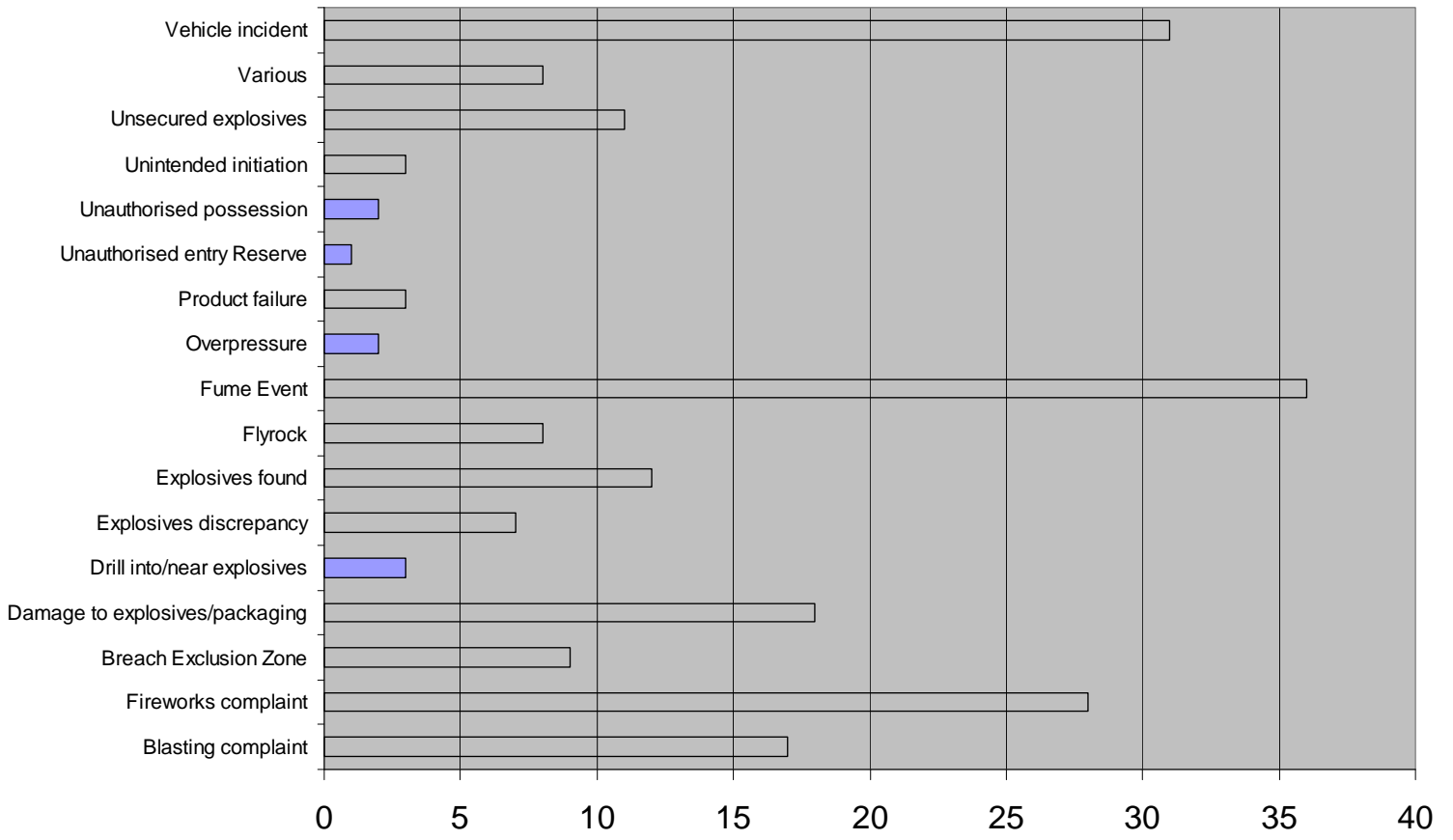


Explosives Complaints December 2012



Past year incidents January 2012 - December 2012

Other incidents (199)



Breakdown of incidents for December 2012

Security

Description	Explosives involved
Unsecured explosives (1 incident)	
A Mobile Manufacturing Unit compound was discovered to be unlocked. There was no entry or theft reported.	SSAN

Safety

Mining

Description	Explosives involved	Outcome
Misfires (22 incidents)		
3 improper tie-ins 3 lead lines cut 3 lead lines fell in hole 1 detonator failure 1 explosives found while mucking out 1 dislocation of column 1 loading method error Other causes unknown.	Blasting explosives	No adverse outcome (High Potential Incident)
Breach Exclusion Zone (1 incident)		
A shot was suspended due to equipment breaking down in the blast exclusion zone.	Blasting explosives	No adverse outcome
Vehicle incident (3 incidents)		
A contractor was loading a Mobile Processing Unit on a bench reload facility and noticed a fire coming from the electrical box at the rear of the cab.	SSAN	Property damage, no injuries
There was a vehicle collision between a dewaterer and a detonator carry box door on a parked shot utility.	Blasting explosives	Property damage, no injuries
The air conditioning unit on a charge car caught fire whilst inside an explosives magazine.	Blasting explosives	Property damage, no injuries
Other (1 incident)		
As a result of charging a big rock, approximately 100 tonne of rock rilled out 5 metres from the drawpoint and buried the big rock and explosives.	Blasting explosives	No injuries

Transport

Description	Explosives involved	Outcome
Vehicle Incident (1 incident)		
The driver of an emulsion tanker located a crack in the weld joint on the side of the tanker whilst transporting SSAN. As a result, there was a small leak of product.	Blasting explosives	Loss of product, no injuries

Manufacture

Description	Explosives involved	Outcome
Overpressure (1 incident)		
A ruptured disc burst on a pump that pumps emulsion product to trucks for despatch at an ammonium nitrate manufacture plant.	Blasting explosives	No injuries

Import

Description	Explosives involved	Outcome
Other (1 incident)		
Import containers of explosives were inspected and found to be infested with insects.	Blasting explosives	No injuries

Storage

Description	Explosives involved	Outcome
Vehicle incident (1 incident)		
A diesel spill occurred at a diesel storage facility due to a loose fitting on a pump.	N/A	No injuries

Complaints

Description	Explosives involved	Outcome
Fireworks (6 incidents)		
A noise complaint was received after a fireworks display. The complainant was annoyed at the failure to receive any prior warning of the display.	Fireworks	No adverse outcome
A noise complaint was received regarding fireworks that can be heard every Friday and Saturday night. The complainant does not know where the fireworks are being let off nor who is doing it.	Fireworks	No adverse outcome
A complaint was received that fireworks were being let off on a freeway late at night.	Fireworks	No adverse outcome
A church has complained about a fireworks display that was conducted by the neighbouring hotel and had concerns about the safety of their archives that date back to the 1800s.	Fireworks	Under investigation
A complaint was received about the use of illegal fireworks at a residential property.	Fireworks	No adverse outcome
A complaint was received about the use of illegal fireworks at a residential property.	Fireworks	Recovered aerial shells from the property

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