

Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | January 2011

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives			None reported for month.
Theft of explosives			None reported for month.
Other	Detonators	3	Three detonators were left unsecured in a charge car basket after a shift change in an underground mine.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	No	Blasting	Mining	62 misfires reported: two product failures and one slumped hole. Other causes not known.
None	No	Blasting	Mining	Resident complained about excessive vibration from a quarry blast.
None	No	Fireworks	Fireworks	Five complaints were received concerning noise from fireworks displays.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter: <https://twitter.com/#!/MiningSafetyQLD>

Southern Region Office
PH: 07 3238 3728
sroexplosives@deedi.qld.gov.au

Central Region Office
PH: 07 4938 4442
croexplosives@deedi.qld.gov.au

Northern Region Office
PH: 07 4799 7004
nroexplosives@deedi.qld.gov.au

Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | February 2011

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives			None reported for the month.
Theft of explosives			None reported for the month.
Other	None	None	3 railway signals in the Chinchilla region were reported to have been stolen.
Other	Blasting	2	A discrepancy in stock records found that two LP detonators were unaccounted for.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Fume event	Yes	Blasting	Mining	A level 5 fume event was generated post blast. The fume breached the exclusion zone but remained on the lease. There were no exposures reported.
Fume event	Yes	Blasting	Mining	A level 4 - 5 fume event was generated from a heavy ANFO overburden shot. The fume breached the exclusion zone but no onsite personnel were exposed.
Other	Yes	Blasting	Mining	Persons found within exclusion zone at 950m on the 1000m exclusion zone (within a building) when shot was fired.
Other	Yes	Blasting	Transport	After arriving with a load of HE boosters, the driver and magazine keeper found that the carry box was open and that a pallet of 400 gram boosters had fallen over and another pallet had shifted.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Complaint	Yes	Fireworks	Illegal fireworks	A complaint was lodged regarding the use of illegal fireworks in the Norman Park area.
Other	Yes	Ammunition	None	QFRS attended a house fire in the Gold Coast region where explosions were heard coming from the fire. QFRS put out an exclusion zone while the shed was burning. Appears to have contained ammunition.
None	Yes	Blasting	Mining	23 misfires reported: Two product failures, one live detonator and booster found in muck pile, three slumped holes, two pre-split holes washed in and one potential misfire. Other causes not known.
None	Yes	Fireworks	Fireworks	One product malfunction reported.
Other	Yes	Improvised explosives device	None	A male had made a pipe bomb from sparkler composition in an aluminium pipe. It was reported that when attempting to light the bomb with a gas torch, it malfunctioned seriously injuring him.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter: <https://twitter.com/#!/MiningSafetyQLD>

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | March 2011

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives			None reported for month.
Theft of explosives			None reported for month.
Other	Blasting	2 boxes	After a stock take, it was noted that two boxes of detonators were missing however two boxes of different boosters were present indicating a mistake in ordering/delivery.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	No	Blasting	Mining	67 misfires reported: One product failure, one column dislocation and one dropped down hole. Other causes not known.
None	No	Fireworks	Fireworks	There were three complaints concerning fireworks for the month.
Fume events	Yes	Blasting	Mining	There were seven fume events at mine sites for the month. There were 24 exposures resulting in some hospitalisations, but no long term health effects.
Damage to plant	Yes	Blasting	Mining	A production pump used in the manufacture of explosives ruptured a burst disc causing some product to be spilt. All product was recovered.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Damage to plant	Yes	Blasting	Mining	Two Mobile Processing Units collided due to human error.
Other	No	Fireworks	Fireworks	Prior to beginning a fireworks display, an unauthorised individual entered the exclusion zone.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter: <https://twitter.com/#!/MiningSafetyQLD>

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | April 2011

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives			None reported for the month.
Theft of explosives			None reported for the month.
Other	Blasting		A delivery of detonators was received at a Government Explosives Reserve from an unlicensed courier.
Other	Blasting	1	A detonator was found unsecured on the dashboard of a vehicle on a mine site.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	No	Blasting	Mining	55 misfires reported: One column dislocation, one not tied in, one slumped hole, five found in muck piles and 1 product failure. Other causes not known.
Fume event	Yes	Blasting	Mining	There were six fume events at mine sites reported for the month: There were 18 potential exposures resulting in some being hospitalised as a precautionary measure. There were no long term health effects.
Damage to plant	No	Blasting	Mining	Some smoke was seen coming from a charge unit. The unit was moved from the face and the smoke was stopped.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Flyrock	Yes	Blasting	Mining	Whilst firing an overburden shot, flyrock struck a parked dozer, breaking the windscreen. The dozer was within the 1000m personnel exclusion zone.
None	Yes	Blasting	Mining	A digger operated onto a loaded shot.
None	No	Blasting	Construction	A floating blasting rig came adrift, severing a downline to a loaded shot on the sea bed.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter: <https://twitter.com/#!/MiningSafetyQLD>

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | May 2011

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives	Blasting	2	Two boosters were found on a road in an underground mine. It is believed that they fell from a vehicle.
Theft of explosives	None		None reported for the month.
Other	Blasting	1	An explosives package from a factory was short of a booster.
	Blasting	Not known	A discrepancy of explosives was found during a routine inspection by an Explosives Inspector at a mine site.
	Blasting	1	An electric detonator was found missing during a blasting operation at a mine.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Fume event	Yes	Blasting	Mining	A mine was evacuated due to a fume event from a neighbouring open cut coal mine blast. No exposures were reported.
None	No	Blasting	Mining	89 misfires reported: One desensitisation, a detonator not connected - refired successfully, two detonator failures, one slumped hole and one echelon failure. Other causes not known.
Fume Event	Yes	Blasting	Mining	A category 5 fume event breached the blast exclusion zone. No exposures were reported.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	Misfire – A detonator and booster were found in a muck pile from a blast conducted the previous year.
None	No	No	Mining	Electronic firing system failed to log detonators.
None	Yes	Blasting	Mining	Misfire: A booster and detonator were loaded into a dump truck by an excavator/operator whilst excavating a fired face.
Complaint	No	Fireworks	Illegal	A resident complained of an illegal fireworks display in Shailer Park, Brisbane.
Exclusion zone breach	Yes	Blasting	Mining	A pre blast assessment indicated that fume was likely and a quadrant was added to the blast exclusion zone. A sweep of this area by the blast controller failed to identify the drivers of two prime movers who were sleeping in the cabins of the vehicles at 1.5km from the shot. The shot was fired. There were no exposures or injuries reported.
Complaint	No	Blasting	Illegal	A resident complained of an illegal blast in the Logan Village Area. An investigation indicated that the local quarry was not the source of the explosion.
Complaint	No	Blasting	Mining	A resident complained of a blast at a sand mine.
Damage to vehicle	Yes	Blasting	Mining	An explosives company vehicle transporting emulsion had a tyre fire which was extinguished by the driver who noticed the smoke.
Complaint	No	Blasting	Illegal	A resident complained of an unauthorised blast in the Swanbank area.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on twitter and like us on facebook

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | June 2011

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	Not known	Explosives left unattended on shot over night at mine site
	Blasting	Not known	A tipper containing Security Sensitive Ammonium Nitrate (SSAN) did not have a security seal.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Fume event	No	Blasting	Mining	A level 3 fume event breached the blast exclusion zone. No exposures were reported.
Fume event	No	Blasting	Mining	A level 2 fume event breached the blast exclusion zone (but remained in the fume management zone. No exposures).
Fume event	Yes	Blasting	Mining	A level 4 fume event breached the blast exclusion zone and resulted in the mine site being evacuated. There were three exposures. No long term health effects.
Fume event	Yes	Blasting	Mining	Blast fumes breached the boundary of a mine onto two adjacent rural residential properties. No exposures were reported.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Damage to vehicle	Yes	Blasting	Transport	A trailer containing explosives was reported to be on fire.
Damage to vehicle	Yes	Blasting	Transport	A collision between a stemming loader and an explosives bin truck occurred on a mine site.
None	No	Blasting	Mining	53 misfires reported: One failure to hook up, three detonator failures, one misfired primer in muck pile and two electronic detonators failed to communicate. Other causes not known.
None	Yes	Blasting	Mining	A live nonel detonator was found in road ballast.
Injury	Yes	Blasting	Mining	An operator was struck by a bolt during accretion blasting of a blast furnace.
Complaint	No	Blasting	Mining	A resident complained of a loud noise/house shaking in the Oxenford area.
Exclusion zone breach	Yes	Blasting	Mining	A shot was being loaded when contractors entered the demarcated area of the shot attempting to manoeuvre a drill rig onto the adjacent drill pattern. The rig trammed across an area where there were primed and loaded holes. No downlines were damaged. The shotfirer controlling the shot halted the vehicle.
Flyrock	Yes	Blasting	Mining	Whilst firing a shot, a flyrock incident impacted the house of a dragline 240m away. The exclusion zone for vehicles was set at 200m.
Complaint	No	Fireworks	Fireworks	A resident complained of a loud noise as a result of a fireworks display.
Damage to vehicle	Yes	SSAN	Transport	A transporting company carrying SSAN had the prime mover leave the road and jackknife, damaging the prime mover and trailer. The B trailer was found to be serviceable and able to complete its journey. There was no product loss and the security seals were intact.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on twitter and like us on Facebook.

Southern Region Office
PH: 07 3238 3728

croexplosives@deedi.qld.gov.au

Central Region Office
PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office
PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | July 2011

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives	None		None reported for the month.
Theft of explosives	None		None reported for the month.
Theft of rail track signals	Railway track signals	1	A track signal used for a railway track closure was stolen from the railway line.
Other	Blasting	3	Whilst refurbishing boosters, a box meant to contain 48 was found to be deficient three boosters.
	Blasting	3	On three separate occasions it was found that whilst refurbishing poor quality boosters, the box from the manufacturer was deficient one booster.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	60 misfires: two slumped holes, one collar dislocation and five seismic. Other causes not known.
None	Yes	Blasting	Mining	A detonator and booster were lost down a hole.
None	Yes	Blasting	Mining	A barge made an uncontrolled movement causing the leg of the barge to contact and sever several down-lines to loaded blast holes.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Fume event	Yes	Blasting	Mining	A category 3 fume event breached the blast exclusion zone. No exposures were reported.
Fume event	No	Blasting	Mining	A level 3 fume event was observed. The incident was managed on site. No exposures were reported.
Fume event	No	Blasting	Mining	A level 2 fume event was reported with no exposures.
Fume event	No	Blasting	Mining	A level 2 fume event was reported with no exposures.
Damage to vehicle	Yes	Other	Mining	A Mobile Manufacturing Unit (MMU) lost control, rolling onto its side and spilling its cargo. The operator received minor injuries.
Damage to vehicle	Yes	Blasting	Transport	A transport vehicle carrying a category 3 load of boosters had an engine fire caused by loose insulation. The driver extinguished the fire.
Damage to vehicle	Yes	None	Mining	A prime mover was reported to have collided with an auger at a mine site.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter and like us on facebook

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | August 2011

Security

Incident	Explosive Type	Quantity	Description
Theft of explosives	Blasting		Explosives (Ammonium Nitrate Fuel Oil) were found in a house raid by police in Mount Isa.
Loss of explosives	Blasting	1	A booster and detonator were found to be missing during a blasting operation.
Other	Blasting	5	Whilst refurbishing poor quality boosters, five boxes from the manufacturer were found to be deficient five boosters.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	38 misfires reported: One product failure, one detonator not connected properly – refired successfully, one failure to tie in, two column dislocations and three slumped holes. Other causes not known.
None	Yes	Blasting	Mining	Misfire: A booster and detonator were found in broken material during excavation of a mine site.
Complaint	No	Fireworks	Fireworks	A resident complained of a fireworks display being conducted in the Airlie Beach area during what was perceived to be potentially hazardous weather conditions.
Complaint	No	Blasting	Mining	A resident complained about a blast causing excessive vibration.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Complaint	No	Blasting	Mining	A resident complained about a blast causing excessive vibration.
Complaint	No	Fireworks	Fireworks	A complaint was received regarding a fireworks display in Tully.
Exclusion zone breach	Yes	Blasting	Mining	A worker was situated above a firing location inside the blast exclusion zone at the time of a blast.
None	Yes	Fireworks	Illegal	A mine employee initiated fireworks and projected them towards other employees.
None	No	SSAN	Transport	A trailer being loaded with AN emulsion was overfilled causing a spill.
Fume event	Yes	Blasting	Mining	A level 3 fume event breached the exclusion zone. There were 16 people admitted to hospital for assessment. There were no long term health effects.
Fume event	Yes	Blasting	Mining	A level 4 fume event breached the exclusion zone. No exposures reported.
Fume event	Yes	Blasting	Mining	A fume event breached the exclusion zone. The site was evacuated as a precaution. No exposures reported.
Fume event	Yes	Blasting	Mining	Blasting caused a level 4 fume event to occur. The fume remained on site and dissipated. No exposures reported.
Fume event	Yes	Blasting	Mining	A level 3 fume event remaining within the exclusion zone was reported to have occurred. The site was evacuated. No exposures reported.
None	Yes	Blasting	Mining	A vehicle moved onto a loaded shot and snagged a firing downline which snapped. The downline did not fire.
None	Yes	Blasting	Mining	Whilst walking the shot prior to tie up, a cut downline was located. An attempt to recover the hole was made. The hole was surveyed.
Damage to vehicle	Yes	Blasting	Mining	Smoke was noticed from under the cabin of an MPU. The on-board fire extinguisher was used. No injuries were reported.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter and like us on facebook

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | September 2011

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	Explosives product	Unknown	A quantity of detonator cord was noticed hanging from a wall in an area demarcated. No injuries reported.
Other	None		Approximately 40 litres of diesel was stolen from an on-site generator in an ammonium nitrate storage compound.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Damage to vehicle	Yes	None	Mining	An electric wire on a belly auger shorted out causing a small fire within the starter motor.
Complaint	No	Fireworks	Fireworks	A resident complained of excess noise after a fireworks display at a sports ground in the Sunshine coast area.
Complaint	Yes	Fireworks	Illegal fireworks	Fireworks were used to destroy a letterbox at a private residence in Kelso.
Complaint	No	Fireworks	Fireworks	A complaint regarding the use of unauthorised fireworks in Mt Isa found that no fireworks had been used.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Exclusion zone breach	Yes	None	Mining	3 people were cleared from a mining industrial area during the sweep prior to a blast.
None	Yes	Blasting	Mining	Low flying helicopter hovering over planned blast at mine site.
None	Yes	Blasting	Mining	Detonator and booster run over by dozer.
None	Yes	Blasting	Mining	42 misfires: 1 seismic, 1 connector detonator failure, 3 dislocated columns, 2 tie in failures, 1 slumped hole, other causes unknown.
Product failure	Yes	Fireworks	Fireworks	Plate cake 30mm – a tube on the plate blew out from the side.
Fume event	Yes	Blasting	Mining	A level 2 fume event breached the southern boundary of a site. The site was evacuated as a precautionary measure.
Fume event	Yes	Blasting	Mining	A level 5 fume event was reported with one person experiencing a delayed reaction as a result. No long term health effect.
Damage to vehicle	Yes	Ammunition	Transport	A B Double carrying a mixed load rolled on the Bruce Highway, dispersing its contents. The driver was taken to hospital for treatment of injuries sustained.
Product damage	Yes	SSAN	Transport	A bulk bag of AN was damaged during loading operations.
Weather conditions	Yes	None	Mining	Production was suspended to a bushfire becoming a fire risk.
None	Yes	Blasting	Explosives Training	A trainee operator executed the second crimp (B crimp) of the assembly process for a single non-electrical assembly unit. The abort feature on the crimper sounded an alarm and an immediate inspection of the unit showed that the crimp had occurred on or close to the base charge of the detonator. No initiation occurred. The crimper was tagged out and taken out of service
Damage to iso-tank	Yes	Blasting	Manufacturing	A fuel blend used in the manufacture of emulsion was being transferred from an iso tainer to a storage tank using a gear pump when the iso tank imploded due to pressure. No spillage or injuries were reported.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	Explosive product found in fired blast hole.
None	Yes	Blasting	Mining	Misfire at a complex double bench firing resulted in a lower bench not firing and being covered by earth from firing of the top bench.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter or like us on facebook

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | October 2011

Security

Incident	Explosive Type	Quantity	Description
Loss of explosives	None		None reported for month.
Theft of explosives	None		None reported for month.
Unsecured explosives	None		Non-electric detonator found on ground beside wash down bay area of mine surface.
Other	Blasting	3	A box of Trojan 400g boosters was found to weigh less than what the label on the box had stated.
	None		An explosives manufacturing company employee was found to have waved a transport company driver into the reserve without signing the security register. This person then attempted to forge the signature.

Safety

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	A shotfirer refired a shot without authorisation at a mine site.
None	Yes	Blasting	Mining	57 Misfires: One due to reactive ground (pre checked and suitable explosives selected), two mid shaft misfires, one failure to tie in and one failure to hook in. Other causes not known.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
None	Yes	Blasting	Mining	There was one potential misfire where a detonator and booster were lost in hole. The shot was refired.
Complaint	No	Fireworks	Illegal	A resident complained of an illegal fireworks display at Virginia, Brisbane.
Complaint	No	Fireworks	Fireworks	A resident complained of excessive noise after a fireworks display at St Lucia.
Complaint	No	Blasting	Mining	A resident in the Yandina area complained of excessive noise and vibration after blasting at a mine site.
Complaint	No	Blasting	Mining	A resident in the region of Dalby complained of vibration after blasting took place at a mine site.
Damage to vehicle	Yes	Blasting	Transport	A road train carting ANE rolled between Moura and Clermont. Approximately 200 kgs leaked but was contained. An 800 mt exclusion zone (later extending to 1000m) was set.
Fume event	Yes	Blasting	Mining	A level 3 fume event was generated. No exposures reported.
Fume event	Yes	Blasting	Mining	A level 4 fume event was generated. No exposures reported.
Fume event	Yes	Blasting	Mining	A level 1 fume event breached the exclusion zone. Two exposures were reported. No long term health effects.
Fume event	Yes	Blasting	Mining	A pre strip shot was fired generating a post blast fume which crossed the fume management zone. No exposures reported.
Product damage	Yes	Blasting	Transport	During transit to magazines, two 1.2 tonne bulka bags containing ANFO had fallen off the side of a truck resulting in the spillage of approximately 50kg of product.

Nature of Harm	High Potential	Explosive Type	Industry Sector	Description
Breach of exclusion zone	Yes	Blasting	Mining	A dozer was cleaning up and drove over a safety bund that had been installed around a loaded shot. The dozer was approximately 40 metres away from any loaded holes.
Detonators functional	Yes	None	Other	An employee at a metal recycling facility was cutting up a steel coal stacker unit when three number six detonators exploded. Police and Inspectorate attended site. A further three unexploded detonators were recovered.
Failure to clear exclusion zone	Yes	Blasting	Mining	A blast was fired without positive confirmation from an adjoining property that the exclusion zone was clear and secure.
Breach of exclusion zone	Yes	None	Mining	A machine has dug into a demarcated area adjoining loaded blast holes.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter and like us on facebook

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | November 2011

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		1	One booster was found to be missing after a day's blasting at a mine site.

Safety

Nature of harm	High potential	Explosive type	Industry sector	Description
None	Yes	Blasting	Mining	53 misfires reported: 4 due to initiation system failure, 4 column dislocations, 3 detonator cords cut, 1 lead in line crushed, 1 downline cut, 1 product failure and 2 communication failures; other causes not known.
None	Yes	Blasting	Mining	Service crew drilled through an old misfire containing ANFO.
Complaint	No	Fireworks	Community	The occupier of a residential property was allegedly found to be associated with the unauthorised use of fireworks.

Nature of harm	High potential	Explosive type	Industry sector	Description
Complaint	No	Blasting	Mining	A resident complained of unauthorised blasting near Babinda.
Complaint	No	Blasting	Mining	A resident in the Rolleston area complained of vibration and excessive noise after blasting took place at a mine site.
Damage to vehicle	No	Blasting	Transport	An employee drove into a reload with the handrails atop the MPU in an upright position. The handrail struck the auger outlet area causing minor damage to the handrails and auger.
None	Yes	Blasting	Transport	During the unloading of a pallet load of explosives with a forklift, a single box of primers fell from the pallet. A wheel of the forklift came into contact with the box of primers.
Fume event	Yes	Blasting	Mining	A Level 3 fume event was generated with levels dissipating before leaving the mining site. Two exposures were reported. No long-term health effects are expected.
Flyrock	Yes	Blasting	Mining	A shallow parting shot was fired at a mine site. It was discovered upon clearing the shot that a rock had damaged a section of dragline cable. The dragline was outside the blast exclusion zone. No injuries were reported.
Spill	No	Blasting	Mining	The operator of a road tanker had failed to fully open the butterfly valve while transferring ammonium nitrate emulsion, which caused a small spill. The spill was cleaned up in line with site waste management ops.

Nature of harm	High potential	Explosive type	Industry sector	Description
Damage to vehicle	Yes	Blasting	Transport	A primemover towing B double trailers carting 2 bulk containers containing ammonium nitrate residue lost a set of dual tyre rims and brake drum. The trailer had had a bearing retaining clip repair, which appears to have failed during transport.
None	Yes	Blasting	Mining	A raise borer drilled in between two butts that had been previously charged. The drilling may have occurred while they were being charged.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter: <https://twitter.com/#!/MiningSafetyQLD>

Southern Region Office

PH: 07 3238 3728

sroexplosives@deedi.qld.gov.au

Central Region Office

PH: 07 4938 4442

croexplosives@deedi.qld.gov.au

Northern Region Office

PH: 07 4799 7004

nroexplosives@deedi.qld.gov.au



Significant explosives accidents and incidents



Explosives

Explosives Inspectorate | December 2011

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		Unknown	Explosives were left on a mobile manufacturing unit overnight in Mount Isa.
Other		Unknown	Magazine keepers identified a variance between actual stock and manifest of explosives removed from a magazine.
		2	Audit of magazine found two extra surface connectors.
		Unknown	Routine stocktake identified product variance due to incorrect product being despatched.
		Not applicable	A complaint was received about an alleged loss of security control from a licensed SSAN storage site.

Safety

Nature of harm	High potential	Explosive type	Industry sector	Description
None	Yes	Blasting	Mining	22 misfires reported: 2 due to column dislocations, 1 detonator cord cut, 1 loading method failure and 1 due to water damage. Other causes not known.
Fire	Yes	Blasting	Mining	Employees were travelling on site when they smelt smoke and discovered that the control line reel of a nonel (non-electric) lead in line signal tube had caught fire while travelling in the rear of a ute. The fire was extinguished. There were no injuries reported.
Fire	Yes	SSAN	Transport	The driver of a prime mover transporting SSAN experienced a blowout of the left front tyre. The driver pulled over and walked around the front of the vehicle and found a vigorous fire coming from within the wheel well/engine area. There were no injuries reported.
Fire	Yes	Fireworks	Fireworks	During a fireworks display, a fire from a close proximity gerb occurred resulting in damage to the stage. There were no injuries reported.
Injury	Yes	Fireworks	Fireworks	While hand-firing during a fireworks display, a fireworks assistant suffered third-degree burns to the back of four fingers. The assistant also suffered small dot-sized burns to the face.
Fume event	Yes	Blasting	Mining	Three Level 4 fume events were generated. Fume-management zones were in place and all personnel had been excluded from the zones. 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. There were five exposures reported. It appears that these people were inside the exclusion zone. No long-term health effects are expected.
Fume event	Yes	Blasting	Mining	A fume event was generated. There were two exposures reported. It appears that these people were inside the fume-management zone. No long-term health effects are expected.
None	Yes	Blasting	Mining	After loading the hole in a shot, a large area of collar collapsed into the hole taking the lead with it. The lead could not be retrieved or reprimed as entire collar area was blocked. There were no injuries reported.
Injury	No	Blasting	Transport	A truck carting SSAN was parked next to the transfer auger. An employee removed the security seal and lifted the release handle on the SSAN delivery chute. As this occurred, the employee claimed an injury to his right shoulder (OH&S injury).
None	No	SSAN	Transport	A heavy vehicle transporting SSAN on a mine site was travelling back to the reload site when the driver noticed a change in the vehicle's dynamics. The driver identified that a pair of drive axle dual wheels had become loose from the axle.
Damage to vehicle	No	Blasting	Transport	A heavy vehicle was involved in a single-vehicle incident. There were no injuries reported.

Nature of harm	High potential	Explosive type	Industry sector	Description
Damage to vehicle	No	SSAN	Transport	A driver of a heavy vehicle carting ammonium nitrate prill was involved in a single-vehicle incident. There were no injuries reported.
Damage to vehicle	Yes	Blasting	Transport	A driver of a heavy vehicle transporting residue ammonium nitrate emulsion swerved to try to avoid an oncoming car. The vehicle made contact with the car at the passenger side causing the car to come to a stop resting adjacent to the heavy vehicle. The occupant of the passenger car sustained minor injuries.
Damage to vehicle	No	Blasting	Transport	A shotfirer's vehicle entered a magazine compound and rolled onto its side. The vehicle at the time of the incident was free of explosives. There were no injuries reported.
Damage to vehicle	No	Blasting	Transport	Contact was made between a loader and mobile manufacturing unit as the loader was positioning to perform clean-up duties and, in doing so, got too close to the stationary MMU. There were no injuries reported.
Damage to vehicle	No	Blasting	Transport	While entering an explosives reserve to deliver ammonium nitrate, a driver did not wait for the gate to fully open before entering the reserve. The front bumper of the truck struck the gate. There were no injuries reported.
Product failure	No	Fireworks	Fireworks	A 2" shell burst in mortar tube. There was no damage to mortar or property. There were no injuries reported.

Nature of harm	High potential	Explosive type	Industry sector	Description
Complaint	No	Fireworks	Fireworks	An operator did not clean up after a fireworks display, which resulted in numerous people cleaning up the debris as it was washing into the beach.
Complaint	No	Fireworks	Community	A complaint was lodged about illegal fireworks use at a residential address near Hervey Bay.
Complaint	No	Fireworks	Fireworks	A resident complained that a local fireworks display would distress her birds.

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

Place the alert on noticeboards and ensure all relevant people in your organisation receive a copy.

See more safety alerts and bulletins at <http://mines.industry.qld.gov.au/>

Follow us on Twitter: <https://twitter.com/#!/MiningSafetyQLD>

Southern Region Office
PH: 07 3238 3728
sroexplosives@deedi.qld.gov.au

Central Region Office
PH: 07 4938 4442
croexplosives@deedi.qld.gov.au

Northern Region Office
PH: 07 4799 7004
nroexplosives@deedi.qld.gov.au

