

Same Role, Different Output: How OCE Reports Vary by Site and State

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About Me

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Engineering background:

2022-Present: Director of HazView
2022-2025: Specialised Geotechnical Engineer
2015-2022: Geotechnical consultant
2012-2020: Research and PhD

Research:

- T.A. Vangsness (2020), **Shear strength characterisation of in-pit mud to ensure lowwall stability**, PhD Thesis, School of Civil Engineering, The University of Queensland.
- T.A. Vangsness, D.J. Williams, J. Ahn, B. Miles (2018). **Accelerated degradation and modified slake durability testing of clay mineral-rich coal mine spoil**, Tailings and Mine Waste.
- T.A. Vangsness, D.J. Williams, S. Islam, A. Smith, and L. Bergin (2018). **Consolidation and shear strength testing and stability analysis of coal mine spoil degraded to mud**, Tailings and Mine Waste.
- D. J. Williams, T.A. Vangsness, L. Bergin, A. Smith (2016). **Shear Strength Characterisation of Spoil and In-pit Mud to Ensure Low Wall Stability**, Tailings and Mine Waste.
- Stuart Whitton, Wilfried Wimmeler, Timothy Vangsness (2015). **Application of Screw Press Filtration to Tailings Dewatering**, Australian Coal Association Research Project (ACARP) C23041
- Stuart Whitton, David Williams, Timothy Vangsness, Timothy Delport (2015). **Improved Dewatering, Management and Rehabilitation of Problematic, Clay-Rich Coal Mine Tailings**, Australian Coal Association Research Project (ACARP) C20047

Overview, Learnings and Outcomes

Theory and Literature:

- Reporting requirements of the Acts and Regulations
- A review of OCE report findings from Cres Bulger (2015).

Report Structure:

- Common and uncommon report inclusions.
- Machine or area-based report considerations.

State-of-the-art:

- Best practice for reporting and communicating hazards and their controls.

Open Cut Examiners - Inspection Report				11-3 05/03/2026 Day Shift							
Outgoing Examiners (This Shift) Name: _____ Signature: _____ Date and Time: _____ Tim Vanginess 05/03/2026 17:11				Incoming Examiners (Next Shift) Name: _____ Signature: _____ Date and Time: _____ Sam Hasko-Lynch 05/03/2026				LEGEND Hazard with JSA Hazard is misfire or shot related			
Key Points - Example key points with R.JSA - Here is another test keypoint for Mine Site. - Here is a blasting related key point. We should add a little more text to it. A little more again - Here is a test basic keypoint. I have now updated it (02) of Tertiary material. JSA required with potential cracking and subsidence (240711_TV_11) - Highest movement identified during descending. In going to add a bit more to this keypoint. It's going to have a huge amount of text. It should also have spell-check. But for now, this will be enough (240711_TV_12) - JSA needed (244211_TV_1) - Here is an updated keypoint for the faulted highway (240724_TV_1) - Keypoint for a geotechnical failure. (240810_LB_0) - low banking (250724_TB_0)											
Area Description Status: Open Inspected: Yes PHE Closed Yes PHE South Restricted Yes PHEF Open Yes			Area Description Status: Open Inspected: Yes Pit G Dumps Open Yes Pit H Open Yes Stockpile A Open Yes			Area Description Status: Closed Inspected: Yes Stockpile E Closed Yes Water Dam Closed Yes					
Hazards Identified This Shift											
Name	Location	Type and Subtype	Description	Severity or TARP	JSA/JM/JAW/RAS	Access	Last Inspected				
Hazards Resolved This Shift											
Name	Location	Type and Subtype	Description	Severity or TARP	JSA/JM/JAW/RAS	Access	Last Inspected				
Hazards Re-inspected This Shift											

Open Cut Examiners - Inspection Report				Mine Site 25/06/2023 Night Shift							
Outgoing Examiners (This Shift) Name: _____ Signature: _____ Date and Time: _____ 07/25/24, 12/03/25021_SM_0 15/004_TV_2 Dashed pit RAMP initial 15/015_TV_3				Incoming Examiners (Next Shift) Name: _____ Signature: _____ Date and Time: _____ Person 001 JSA/JM/JAW/RAS Misfire or what related				LEGEND Hazard with JSA Misfire or what related			
Key Points - Report message 08 (Hazard 045) - Report message 08 (Hazard 024) - Report message 08 (Hazard 003) - Report message 02 (Hazard 018) - Report message 04 (Hazard 020) - Report message 01 (Hazard 005) - Report message 08 (Hazard 096)											
Area Status Inspected Area 01 Open No Area 02 Open No Area 03 Open No Area 04 Open No Area 05 Open No Area 06 Open No Area 07 Open No			Area Status Inspected Area 08 Restricted No Area 09 Open No Area 10 Open No Area 11 Open No Area 12 Restricted No Area 13 Open No Area 14 Open No			Area Status Inspected Area 15 Open No Area 16 Open No Area 17 Restricted No Area 18 Open No Area 19 Open No Area 20 Open No Area 21 Open No			Area Status Inspected Area 22 Restricted No Area 23 Restricted No Area 24 Restricted No Area 25 Restricted No		
Hazards Identified This Shift											
Name	Location	Type	Comment/Action/Controls	Rating	JSA	Access	Last Inspected				
No hazards identified this shift											
Hazards Resolved This Shift											
Name	Location	Type	Comment/Action/Controls	Rating	JSA	Access	Last Inspected				
No hazards resolved this shift											
Hazards Re-inspected This Shift											
Name	Location	Type	Comment/Action/Controls	Rating	JSA	Access	Last Inspected				
No hazards re-inspected this shift											
All Other Hazards Still Active											
Name	Location	Type	Comment/Action/Controls	Rating	JSA	Access	Last Inspected				
Hazard 042	Other Location	Blasting Misfire	Misfire Management Plan	N/A	No	Restricted Access	25/06/2023 15:56 Person 001				
Hazard 045	Other Location 16	Geotechnical Sliding Foundation	Within 20' dump edges a slumping south of the repacker tower. Area has been graded and covered off by backfill with further runways identification.	TARP 1	No	Restricted Access	25/06/2023 15:56 Person 001				
Hazard 046	Pit 01 Location 09	Geotechnical Highway Failure/Haulroad	Western wall, minor failures. Bandroll bent in place.	TARP 1	No	Bandroll standstill in place	25/06/2023 15:56 Person 001				
Hazard 005	Pit 01 Location 09	Geotechnical Highway Failure/Haulroad	West steep 40:1 unstable surface with fallates TARP Level 1	TARP Level 1	No	Bandroll standstill in place	25/06/2023 15:56 Person 001				
Hazard 003	Pit 01 Location 07	Operational Winch/Buggy	Eastern corner haul road, winchbugy conditions. Single lane in place, approach with caution.	2 Minor	No	Bandroll standstill in place	25/06/2023 15:56 Person 001				
Hazard 001	Pit 01 Location 07	Operational Sump	Hazard 01 four pump	4 Major	No	Bandroll standstill in place	25/06/2023 15:56 Person 001				
Hazard 002	Pit 02 Location 11	Operational Open Drill Hole	Hazard 003	2 Minor	No	Call supervisor	25/06/2023 15:56 Person 001				

MINE SITE OCE REPORT 26/02/2026 Day Shift			
Dump Status	JSA	Rating	Keypoints
Dump Status 01	*	Low Risk	Keypoint message 07
Dump Status 01	*	Moderate Risk	Keypoint message 08
Dump Status 01	*	Low Risk	Keypoint message 03
Dump Status 02	*	Low Risk	Keypoint message 10
N/A	*	Low Risk	Keypoint message 09
Dump Status 03	*	Low Risk	Keypoint message 11
N/A	*	Low Risk	
Dump Status 02	*	Low Risk	
N/A	*	Moderate Risk	Keypoint message 06
N/A	*	Low Risk	Keypoint message 02
	*	Low Risk	Keypoint message 05

Outgoing Examiners (This Shift)				Incoming Examiners (Next Shift)			
Name	Signature	Time/Date		Name	Signature	Time/Date	
Person 004		12:15 26/02/26		Person 008		26/02/2026	
Person 007		12:15 26/02/26					
Person 008							

Why it Matters

The OCE report is a key record of:

- Inspections carried out.
- Hazards identified.
- Controls implemented.
- Communication between shifts.

During investigations it becomes critical evidence.

Open Cut Examiners - Inspection Report

11-3
05/03/2026 Day Shift

Outgoing Examiners (This Shift)			Incoming Examiners (Next Shift)	
Name	Signature	Date and Time	Name	Signature
Tim Vangsness		05/03/2026 17:11	Sam Hiscop-lynn	

Key Points	
• Example key point with a JSA	• JSA required (240421_TV_0)
• Here is another test keypoint for Mine Site.	• Here is an updated keypoint for the faulted highwall (240724_TV_1)
• Here is a blasting related key point. We should add a little more text to it. A little more again	• Keypoint for a geotechnical failure. (240810_LB_0)
• Here is a test basic keypoint. I have now updated it	• low bunding (250124_SH_0)
• DZP of Tertiary material. JSA required with potential cracking and subsidence. (240711_TV_11)	
• Highwall movement identified during dewatering. I'm going to add a lot more text to this keypoint. It's going to have a huge amount of text. It should also have spell-check. But for now, this will be enough (240711_TV_12)	

Area Description	Status	Inspected
Pit D.	Open	Yes
Pit E	Closed	Yes
Pit E South	Restricted	Yes
Pit F	Open	Yes

Area Description	Status	Inspected
Pit G	Open	Yes
Pit G Dumps	Open	Yes
Pit H	Open	Yes
Stockpile A	Open	Yes

Hazards Identified This Shift

Name	Location	Type and Subtype	Description

Hazards Resolved This Shift

Name	Location	Type and Subtype	Description

Hazards Re-Inspected This Shift

Name	Location	Type and Subtype	Description
07 P24_126_03t 251021_SM_0		Misfires	test
Intersection 251004_TV_2		Intersection	
Flooded pit null		Operational Open Body Of Water	Pit has been flooded and is being used as water storage
dump height exceeded 251019_TV_3		Geotechnical Dump Height Exceeded	edge /52

Legislative Intent

The Legislation defines **what must occur**,
not how the report must look.

Requirements broadly include:

- Work areas inspected.
- Hazards identified.
- Controls documented.
- Communication between examiners.
- Records retained in the mine record.

Everything else is site interpretation.

Legislative Framework

QLD:

- Coal Mining Safety and Health Act 1999
- Coal Mining Safety and Health Regulation 2017

NSW:

- Work Health and Safety Act 2011.
- Work Health and Safety (Mine and Petroleum Sites) Act 2013.
- Work Health and Safety (Mines and Petroleum Sites) Regulation 2022.

These establish **duties and inspection requirements** for statutory roles.

QLD: Coal Mining Safety and Health Regulation 2017

- Before carrying out inspections read the report and acknowledge it has been read.
- Inspection areas:
 - The excavation and nearby areas where activities are to be carried out.
- Frequency:
 - Before activities start.
 - Periodically as required under SHMS.
- Safety Inspections:
 - 141 2(b) the results of the inspection, including details of hazards and recommended corrective action, to be made available to the CMWs.

106 Inspecting surface excavations

- (1) An open-cut examiner for a surface mine must inspect a surface mine excavation and the part of the mine near the excavation where activities, including mining activities, are to be, or are being carried out, to decide whether the level of risk is acceptable.
- (2) The inspection must be done—
 - (a) before the activities start in or around the excavation; and
 - (b) periodically, as required under the mine's safety and health management system.
- (3) Before carrying out the inspection, the examiner must—
 - (a) read the latest open-cut examiner's report in the mine record for the mine; and
 - (b) acknowledge, in writing, in the mine record, that the examiner has read the report.

141 Safety inspections

- (1) A surface mine must have a standard operating procedure for carrying out safety inspections of workplaces, including an inspection by an open-cut examiner under section 106, at the mine.
- (2) The procedure must require—
 - (a) a safety inspection to be done before an on-site activity is carried out at a workplace, and periodically while activities are carried out at the workplace; and
 - (b) the results of the inspection, including details of hazards and recommended corrective action, to be made available to the mine's coal mine workers.

OCE Responsibilities

Responsibilities defined in more detail in the Statutory Function Description provided by the NSW Resources Regulator. Of note:

- Read and sign off on OCE report from previous shift and communicate as required.
- Carry out the mine inspection plan and make entries in shift report.
- Complete shift report and sign off.
- Communicate with oncoming examiner.

In the area of the coal mine for which the open cut examiner is responsible

→ Shift start-up:

- Read and sign off on outgoing open cut examiner report for the previous shift and communicates contents to workers as required.
- May inspect work areas, cause them to be inspected, or rely on information available from reports and/or communication with workers, as required by the safety management system, to ensure risks are controlled before work commences.
- Consult with and provide relevant information and instruction to workers to enable them to safely carry out their assigned work.

→ During the shift:

- Supervise workers and the work activities being carried out.
- Consult with workers and supervisors in relation to any changing conditions/requirements, risk management, resourcing etc.
- Carry out mine inspection plan for work areas during the shift and make entries in the shift report, as required.
- Monitor hazards and risks, including air contaminants (e.g. dust).
- Ensure that risk controls are applied and controlling the hazards and their risks.
- Instruct workers and monitor work practices (including contractors), with reference to any work procedures and plans.
- Monitor plant being used and workers entering the work area(s), in particular mobile plant movements.
- Report significant shift activities, such as safety critical changes or incidents, to persons in the mine management structure in the safety management system. This may include any other supervisor whose work area may be impacted.

→ End of shift:

- Complete shift report and sign off on it.
- Communicate with any incoming open cut examiner(s).
- As far as is reasonable practicable and applicable, support any incoming shift workers to have safe mining operations and a safe workplace e.g. power isolated.

→ Scheduled tasks (as directed as part of planning for the shift and mine):

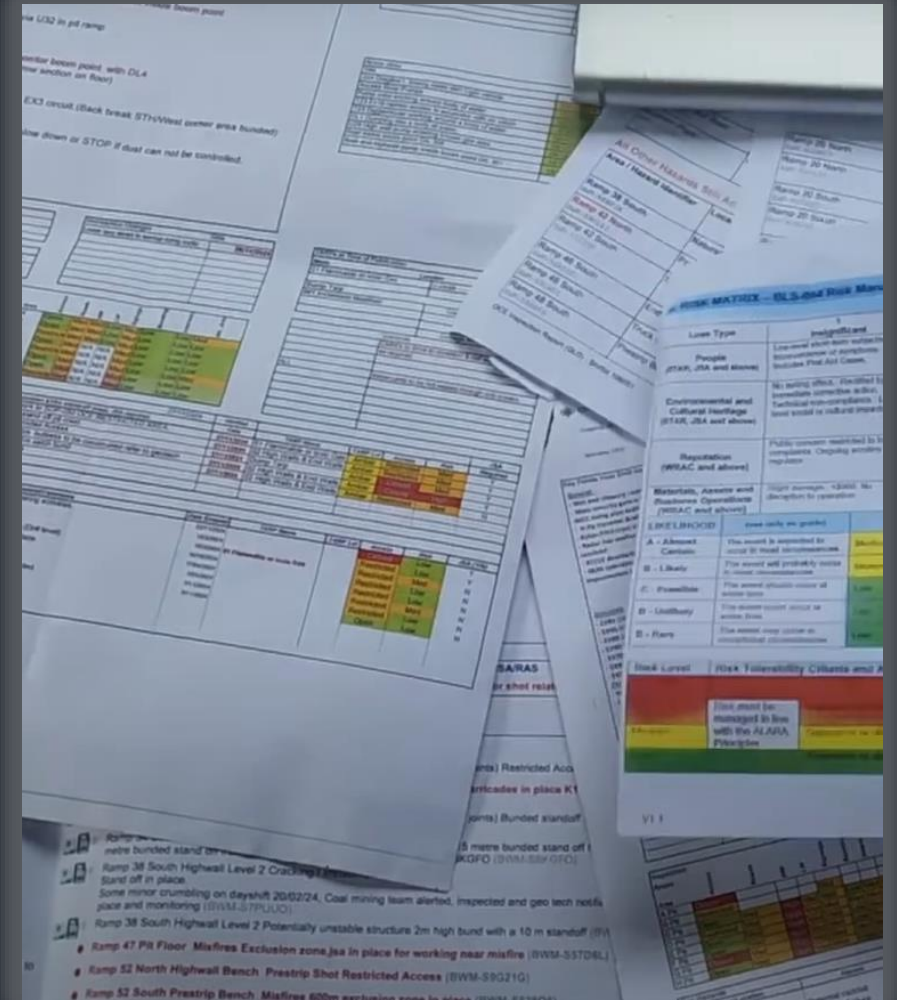
- Apply the safety management system so workers remain familiar with the emergency exits and facilities.
- As directed, supervise workers to participate in the testing of the emergency plan as required, which is legislated as at least every 12 months.
- As directed, supervise workers to participate in the mine training program for workers.

Statutory function description
(NSW Resources Regulator)

Observations from Industry: **Cres Bulger** (2015)

Issues and complexities with reporting:

- **Multiple OCEs** on the same shift. Who inspected what?
- Reports not always **easily available**.
- Consider the **complexity and relevance**:
 - Do CMWs read the report?
 - Is it practical for them to read it?
 - How can we make it easier to read, understand and communicate?



A typical desk or car floor at the end of a long day.

Observations from Industry: Cres Bulger (2015)

Good Practices:

- OCE Report presented during pre-starts.
 - Provide **relevant information** to CMWs.
- Ensure **simple** identification of hazardous areas and controls.
- Show the **time of inspection**.
 - Can your team do this?

Peabody		COPPABELLA		OPEN-CUT EXAMINER'S INSPECTION REPORT	
				as per COAL MINING HEALTH AND SAFETY REGULATIONS 2001, s106	
OCE NAME:	Trevor Inskip	CREW:	D	SHIFT:	Day
OCE SIGN:		INSPECTION COMMENCED:	6:15 AM	DATE:	Saturday, 17 January 2015
FOLLOWING OCE NAME:	Russell Dyer	CREW:	C	SUPERVISOR NAME:	Trevor Trott
OCE SIGN:		SUPERVISOR SIGN:		INSPECTION COMPLETED:	4:30 PM
HAZARDS IDENTIFIED	AREA	CORRECTIVE / PREVENTATIVE ACTIONS	REPORTED/DELEGATED TO		
Misfired blast holes.	SP-24	Misfire management plan to be followed. Monitor temperature near Pinnacle 3 misfires to ensure continued entry.	All personnel		
Unstable high wall near dragline.	SP-24	Radar monitor in position. Separation bund must be built between the alarm areas for Blocks 17 & 18 before coaling starts. No entry from dragline into the key.	Operators in affected area		
Narrow section of roadway.	JP A-Endwall	Signage in place. Empty trucks to give way.	Operators in affected area		
East Pit end wall slumped	East Pit	Coal haul road banded off on both sides of failed section	Following OCE		
Rough section on low wall walk road	South Pit to SP end wall	Traffic cones near area. Proceed with caution.	All personnel		
Haul roads affected by rain & pooled water	All areas	All LV's must use 4x4. Drive to conditions	All personnel		
Slumping low wall road edges SP	5th Pit, East Pit Bench	Road closed. Do not cross traffic cones.	Following OCE		
Specific information in relation to safety to be passed on to the following mine workers: Re-sheeting of Creek pit & JPN haul road section is under way. Reduce Speed. Monitoring of heating near misfires in South Pit on D/S. Temps below 90°C All areas. Highwall radar recording high movement alarms adjacent to coal area. JSA for coaling LV18 on standby at ERT shed to provide 4WD rescue capability. Rehandle trucks hauling from 30-Mile to ROM. Dozer push at Leighton's Hill operational. F-Dump access to East Pit banded off. Roadworks near intersection for water drainage.					
EXPLOSIVES	AREA	CONTROLS IN PLACE	REPORTED/DELEGATED TO		
Misfires	SP-24	Area fenced, signs & flashing lights.	Supervisor		
Misfire	JP-20, Hole C2 (Ex10 area)	Area banded. Location marked in Ex10 plan.	Supervisor		
Loaded Shot	JP-20	Area fenced, signs & flashing lights.	Orica		
No blast scheduled for next 24 hrs. Scheduled time of blast: 3pm Sunday (TBC) Exclusion Zone:					
Current JSA's - To be reviewed by affected mine workers		NO UNAUTHORISED ENTRY - Call OCE			
AREA	NEW CONTROLS	AREA	HAZARD		
South Pit highwall failure	10m stand off bund along h/wall bench. No entry to dragline key.	High wall bench, South Pit.	No unauthorised access to misfires.		
South Pit coal mining	Radar on low wall. Two alarms zones at dispatch for block 17 & block 18. Spotter for work near stand-off zone.	JP RL180 dump.	Trucks dumping above.		
Drilling @ Pinnacle 1	View full WRAC before starting work or entry to area. Drill plan to incorporate probable location of misfires/boosters.	SPE End wall (Pinnacle 3)	Misfires, Suspected heating, toxic gas and unstable ground		
		Out-of-Pit dumps	Wash outs & sink holes in roadways.		
		Central low wall road	Cracking & slumping following wet weather		
		EP Endwall road	Falling endwall section has closed road.		

Extract from Cres Bulger (2015)

Observations from Industry:

Cres Bulger (2015)

Good Practices:

- OCE Report presented during pre-starts.
 - Provide relevant information to CMWs.
- Ensure simple identification of hazardous areas and controls.
- Show the time of inspection.
 - Can your team do this?

Incidents:											
Unit	JSA	CH	Location	Refer to 06.12.13 FM01 Dumping TARP				Refer to PHMP-05.12.01 GEOTECHNICAL		Comments	
				Material	Moisture Content	Dump Height	TARP Status	Geological Hazards	Excavated Walls TARP		
DE-01	Yes	3	SP-24	Fresh Rock	Dry			Highwall unstable at time of inspection	Level 2	No entry to key.	
EX-02		1	East Pit				N/A			Standby	
EX-03		1	EP-06				N/A			Standby. Access via crusher pad @ saddle dump	
EX-05		5	EP-05	Fresh Rock	Dry	15	Normal	Wall stable at time of inspection	Normal	Hauling to JP RL210 dump	
EX-06		5	SP-24	Coal	Dry		N/A	Rocks falling during rainfall.	Level 1	Coaling to Rom Bin	
EX-10		2	JPN-20	Fresh Rock	Dry	10	Normal	Wall stable at time of inspection	Normal	Hauling to JP RL260 dump with shovel. (parked)	
SE-01		2	JPN-25	Tertiary	Damp	10	Level 1	Wall stable at time of inspection	Normal	Hauling to JP RL260 dump.(Parked)	
LD-04		1	ROM	Coal	Dry		N/A			Blending coal with rehandle truck.	
LD-05			30-Mile	Coal	Dry		N/A			Loading rehandle truck	
LD-06			Leightons							Standby	
K-20			30-Mile							Standby	
Ex-S04			Johnson Pit								
PD-01			Offsite								
PD-02			JP-20	Overburden						Drilling	
DR-17			EP-05	Overburden						Drilling. Access from East Pit highwall ramp.	
Contractors:											
		JSA	CH	Location		Site Contact		Comments			
Katco.			3 / UHF 20	Leighton's Hill		Trevor Trott: 0427 923070		Access from Coal Central or Leighton's Hill past topsoil circuit.			
Katcrush.			1	JPN Pad		Brett Moohin: 0409 495108		Day shift only (Mon-Fri).			
Orica.			1	JP-20		Orica: 0428 542601		Loading			
TMM Earthmoving.			8 / UHF 28	Creek Pit Road		Michael Rogers: 0428 480021		Scraper circuit access over ERT training area.Second scraper circuit from near south arm diversion, onto Creek Pit road to Leighton's Hill.			
TMM Earthmoving.			1/UHF 11	Creek Pit Road		Brett Moohin: 0409 495108		Day shift only (Mon-Thu). Ex1 parked at high-wire road.			
Moorvale E'moving.			1/UHF 25	"F" Dump & East Pit.		Brett Moohin: 0409 495108		Day shift only (Mon-Fri).			
Sling Trailer				Sign compound. (Grey trailer)				High wall Chain		Across JP bridge, at the bottom of the highwall ramp.	

Extract from Cres Bulger (2015)

How Sites Structure OCE Reports

Most reports fall into four structures:

- Area based.
- Machine based.
- Combination of both.
- Checklist driven.

Each approach **changes how information is communicated.**

Area-based Reports

Organised by pit or work area.

- Strengths:
 - Simple structure.
 - Easy to reference location status.
- Limitations:
 - Equipment locations are not obvious.
 - Difficult to present quickly in a prestart.

Works best when printed or reviewed in detail.

Open Cut Examiners - Inspection Report

Mine Site

29/09/2025 Night Shift

Outgoing Examiners (This Shift)

Name

Signature

Date and Time

Incoming Examiners (Next Shift)

Name

Signature

Date and Time

Person 002

29/09/2025

Legend

Has JSA

Misfire or shot related

Key Points

• Keypoint message 06 (Hazard 048)

• Keypoint message 08 (Hazard 024)

• Keypoint message 04 (Hazard 020)

• Keypoint message 03 (Hazard 018)

• Keypoint message 04 (Hazard 020)

• Keypoint message 08 (Hazard 024)

• Keypoint message 05 (Hazard 036)

• Keypoint message 01

Area	Status	Insp.	Area	Status	Insp.	Area	Status	Insp.	Area	Status	Insp.
Area 01	Open	No	Area 08	Restricted	No	Area 15	Open	No	Area 22	Restricted	No
Area 02	Open	No	Area 09	Open	No	Area 16	Open	No	Area 23	Restricted	No
Area 03	Open	No	Area 10	Open	No	Area 17	Restricted	No	Area 24	Restricted	No
Area 04	Open	No	Area 11	Open	No	Area 18	Open	No	Area 25	Restricted	No
Area 05	Open	No	Area 12	Restricted	No	Area 19	Open	No			
Area 06	Open	No	Area 13	Open	No	Area 20	Open	No			
Area 07	Open	No	Area 14	Open	No	Area 21	Open	No			

Hazards Identified This Shift

Name	Location	Type	Comment/Action/Controls	Rating	JSA	Access	Last Inspected
No hazards identified this shift							

Hazards Resolved This Shift

Name	Location	Type	Comment/Action/Controls	Rating	JSA	Access	Last Inspected
No hazards resolved this shift							

Hazards Re-Inspected This Shift

Name	Location	Type	Comment/Action/Controls	Rating	JSA	Access	Last Inspected
No hazards re-inspected this shift							

All Other Hazards Still Active

Name	Location	Type	Comment/Action/Controls	Rating	JSA	Access	Last Inspected
Hazard 047	Other Other	Blasting Misfire	Misfire Management Plan	N/A	No	Restricted Access	29/9/2025 15:56 Person 005
Hazard 045	Other Location 16	Geotechnical Sloping Foundation	central 320 dump edge is slumping south of the repeater tower. area has been graded and coned off to help with further slumping identification.	TARP 1	No	Restricted Access	29/9/2025 15:56 Person 005
Hazard 007	Pit 01 Location 10	Geotechnical Highwall Failure/Instability	Western wall, minor failure. Standoff bund in place.	TARP 1	No	Bunded standoff in place	29/9/2025 15:56 Person 005
Hazard 005	Pit 01 Location 09	Geotechnical Highwall Failure/Instability	West strip 40/41 unstable endwall with failures TARP Level1	TARP Level 1	No	Bunded standoff in place	29/9/2025 15:56 Person 005
Hazard 003	Pit 01 Location 08	Operational Wet/Boggy	Eastern corridor haul road, wet/boggy conditions. Single lane in place, approach with caution.	2. Minor	No	Approach with caution	29/9/2025 15:56 Person 005
Hazard 001	Pit 01 Location 07	Operational Sump	Hazard 001 floor Sump	4. Major	No	Bunded standoff in place	29/9/2025 15:56 Person 005
Hazard 023	Pit 02 Location 11	Operational Open Drill Holes	Hazard 023	2. Minor	No	Call up Supervisor	29/9/2025 15:56 Person 005
Hazard 021	Pit 02 Location 09	Geotechnical Rockfall/ Excessive Ravelling	Hazard 021 15M X 2M standoff Bunding in place	TARP 2	No	Bunded standoff in place	29/9/2025 15:56 Person 005
Hazard 019	Pit 02 Location 07	Geotechnical	Southern batter undercut/oversteepened. 10m stand off 2m bund at toe.	TARP 1	No	Bunded standoff in place	29/9/2025 15:56 Person 005

Page 1 of 2

Machine-based Reports

Focused around equipment.

- Strengths:
 - Easy for crews to relate to.
 - Useful for prestart communication.
- Limitations:
 - Machines move during the shift.
 - Large sites produce very large tables.

Can be split into regions (e.g. north and south, 11-2 and 11-3).

COAL MINING SAFETY AND HEALTH REGULATION 2017 QUEENSLAND PART 2 SECTION 106(3) - REPORT ON INSPECTION OF THE OPEN-CUT EXCAVATION										Mine Site OCE Report 26/02/2026 Day Shift													
Machines										Outgoing Examiners (This Shift)				Incoming Examiners (Next Shift)									
Machine		Work Location		Dump Status		JSA		Rating		Keypoints				Name		Signature		Time/Date					
Excavators										Person 004				12:15 26/02/26		Person 008				26/02/2026			
EX001		Work Location/ Access 07		Dump Status 01		x		Low Risk		Keypoint message 07				Person 007				12:15 26/02/26					
EX002		Work Location/ Access 08		Dump Status 01		x		Moderate Risk		Keypoint message 08				Person 008				12:15 26/02/26					
EX003		Work Location/ Access 11		Dump Status 01		x		Low Risk		Keypoint message 03													
EX004		Work Location/ Access 21		Dump Status 02		x		Low Risk		Keypoint message 10													
Draglines										General Key Points													
DL001		Work Location/ Access 23		N/A		x		Low Risk		Keypoint message 09				• Keypoint message 01									
Loaders										Hazard Related Keypoints													
LD001		Work Location/ Access 14		Dump Status 03		x		Low Risk		Keypoint message 11				Name		Location		Type		Keypoint		Rating	
LD002		Work Location/ Access 15		N/A		x		Low Risk						Hazard Alert 04-04. (Hazard 040)		Area 19 Location 84		Cracking/ Instability		Keypoint message 04		Level 1 - Yellow	
LD003		Area 08				x		Low Risk						Lightning TARP		Air Quality TARP		Weather TARP					
LD004		Area 08		Dump Status 02		x		Low Risk						Normal		Normal		Normal					
Drills										Blasting Hazards													
DR001		Work Location/ Access 05		N/A		✓		Moderate Risk		Keypoint message 06				Name		Location		Type		Comment/Action/Controls		Proposed Firing Date	
DR002		Work Location/ Access 09		N/A		x		Low Risk		Keypoint message 02				Hazard 063 (Hazard. 064)		Area 05 Blast Pattern		Overburden Shot		Loaded shot		28/02/26 15:21	
Dozers										JSAs													
DZ001		Work Location/ Access 18				x		Low Risk		Keypoint message 05				Example JSA not expired (Expires 28/02/2026) Example JSA expired EXPIRED: 22/02/2026									
Magazine & Reload Facility																							
Name		Status		Last Inspected		Inspector		No Data.															
Sumps																							
Hazard 060																							
Gas Checks																							
Location		Wind		H2S (PPM)		CO (PPM)		SO2 (PPM)		LEL (%)		Temp		TARP		Date							
No gas checks added to HazView																							

Hazards Identified This Shift												
Pit	Name	Location	Type and Subtype	Comment/Action/Controls				Rating	JSA	Access	Last Inspected	
No Data.												
Hazards Resolved This Shift												
Pit	Name	Location	Type and Subtype	Comment/Action/Controls				Rating	JSA	Access	Last Inspected	
Area 11	Floor Heave (Hazard 009)	Location 82	Operational: Floor Heave	test					Level 1 - Yellow		Call up OCE	26/2/2026 11:47 Person 007
All Active Hazards												
Pit	Name	Location	Type and Subtype	Comment/Action/Controls				Rating	JSA	Access	Last Inspected	
	Hazard Alert 02-02 (Hazard 030)	Location 81	Geotechnical: Cracking/ Instability	Refer to Hazard Alert Hazard Alert 02-02				Level 1 - Yellow		Restricted Access	23/2/2026 11:48 Person 002	
Area 03	Hazard Alert 08-08 (Hazard 046)	Location 83	Geotechnical: Highwall Failure/Instability	Refer to Hazard Alert Hazard Alert 08-08				Level 1 - Yellow		Restricted Access	24/2/2026 09:26 Person 005	
Area 05	Hazard Alert 13-13 (Hazard 066)	Location 84	Geotechnical: Rockfall/ Excessive Ravelling	Refer to Hazard Alert Hazard Alert 13-13				Level 1 - Yellow		Bunded standoff in place	25/2/2026 01:14 Person 003	
	Hazard Alert 12-12 (Hazard 065)	Location 84	Geotechnical: Rockfall/ Excessive Ravelling	Refer to Hazard Report Hazard Alert 12-12				Level 1 - Yellow		Bunded standoff in place	24/2/2026 20:06 Person 003	
	Hazard 063 (Hazard 064)	Blast Pattern	Blasting: Overburden Shot	Loaded shot				Level 3 - Red		Under Exclusive control	25/2/2026 23:28 Person 004	
	Hazard Alert 11-11 (Hazard 062)	Location 84	Geotechnical: Rockfall/ Excessive Ravelling					Level 1 - Yellow		Bunded standoff in place	24/2/2026 00:43 Person 003	
Area 06	Hazard 060 (Hazard 061)	Location 82	Operational: Sump	In pit sump for dewatering				Level 1 - Yellow		Bunded standoff in place	26/2/2026 00:54 Person 004	
	Hazard Alert 10-10 (Hazard 055)	Location 81	Geotechnical: Undercut/ over-steepened	Refer to Hazard Report Hazard Alert 10-10				Level 2 - Orange		Bunded standoff in place	25/2/2026 19:05 Person 004	
	Hazard Alert 09-09 (Hazard 053)	Location 84	Geotechnical: Cling-ons	Refer to Hazard Alert Hazard Alert 09-09				Level 1 - Yellow		Bunded standoff in place	25/2/2026 19:05 Person 004	

A mix of Area and Machine information

- **Strengths:**
 - Broad situational awareness.
 - Useful summaries for communication.
- **Limitations:**
 - Complexity increases quickly.
 - Reports can be cluttered.

The balance between detail and usability becomes critical.

Outgoing Examiners (This Shift)

Name	Signature	Time
Person 001		16:31

Key Points

General:

- Keypoint message 01
- Keypoint message 02
- Keypoint message 03
- Keypoint message 04

Hazard Related Keypoints:

- Geotechnical - Dump Failure/Instability (Area 13, Location 35): **Keypoint message 05 (Hazard 132)**
- Operational - Hazard 052 (Pit 09, Location 21): **Keypoint message 06 (Hazard 053)**

Magazine & Reload Facility

Name	Status	Last Inspected	Inspector
No Data.			

Incoming Examiners (Next Shift)

Name	Signature	Time
Report Generator		07/02/2026

Blasting Hazards

Name	Location	Type	Description	Proposed Firing Date
Blasting	Area 12 Location 23	Overburden Shot	Area 12 loaded shot	No Date Added
Blasting	Area 09 Blast Pattern	Overburden Shot	04 blast	02/02/26 16:31
Blasting	Area 03 Blast Pattern	Interburden Shot	06 shot	No Date Added
Hazard 076	Area 09 Location 26	Hazard 076	PS_03_Hazard 076	No Date Added

Misfires

Name	Location	Description	Status
No Data.			

Active JSAs

Title	Expiry	Title	Expiry
Salmon loading out topsoil at kemmis	03/06/2026	Salmons Area 13 drain	04/06/2026
Softwall Issues Drill 70 and 71	04/06/2026	Drill 67 without boarding ladder	05/06/2026
Field maintenance yard works	04/06/2026		

Gas Readings

Location	O2 (%)	CH4 (PPM)	H2S (PPM)	CO (PPM)	CO2 (PPM)	SO2 (PPM)	Date/Time	Notes
Test Location	20.8	0	500	0	500	0	07/02/2026, 16:17	Test addition notes for a gas check.

Area Inspections

Area	Status	Machines	Two-way Ch.	Name	Details	Rating	JSA	Last Inspected
Area 01	Restricted	Hazard 009, LD003, LD004	CH24					
Area 02	Restricted							
Area 03	Open							
Area 04	Open	EX004, EX005	CH15	Hazard 101	Location 32: Abnormal Water Flow (Seepage). Water intersected by EX005 . Location 26: Highwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 103 . Location 31: Highwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 109 . Location 27: Dump Failure/Instability. Refer to Geotechnical Hazard Report Hazard 107 . Location 31: Potentially Unstable Structure. Refer to Geotechnical Hazard Report Hazard 109 . Location 31: Highwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 111 .	Low	✓	25/08/25 02:56 - PO
Area 05	Restricted	EX006, EX007, EX008	CH53					
Area 06	Open		CH13	Hazard 063 Hazard 067	Location 26: Rockfall/Excessive Ravelling. Refer to Geotechnical Hazard Report Hazard 065 . Location 26: Highwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 067 .	Level 1 Level 2	✖ ✖	25/08/25 02:56 - PO 25/08/25 02:56 - PO
Area 07	Open	EX002, LD001, LD002	CH25, Rejects CH26					
Area 08	Open		CH13					
Area 09	Open		CH13	Hazard 071 Blasting Hazard 076 Hazard 082 Hazard 069 Hazard 074 Hazard 078 Hazard 080	Location 27: Hazard 071 areas . Keep Clear. Blast Pattern: Overburden Shot. 04 blast . Restricted Access . Location 26: Hazard 076. PS_03_Hazard 076 . Standoff in place. Location 28: Body of Water. body of water keep clear . Call up OCE. Location 26: Highwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 069 . Location 26: Highwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 074 . Location 25: Highwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 078 . Location 27: Lowwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 080 .	Low Low High Low Level 2 Level 2 Level 1 Level 2	✖ ✓ ✖ ✖ ✖ ✖ ✖ ✖	25/08/25 02:58 - PO 25/08/25 02:56 - PO 25/08/25 02:58 - PO 25/08/25 02:58 - PO 25/08/25 02:58 - PO 25/08/25 02:58 - PO 25/08/25 02:58 - PO 25/08/25 02:57 - PO
Area 10	Restricted		CHPP CH2					

HazView.®

Generated by Report Generator 16:31 07/02/26

Page 1 of 2

COAL MINING SAFETY AND HEALTH REGULATION 2017 - QUEENSLAND PART 2 SECTION 106(3) - REPORT ON INSPECTION OF THE OPEN-CUT EXCAVATION

OCE Report

Shift Date	Shift	Crew
07/02/2026	Day Shift	

Area Inspections

Area	Status	Machines	Two-way Ch.	Name	Details	Rating	JSA	Last Inspected
				Hazard 094 Hazard 099	Location 26: Cling-ons. minor hang up in front of pre split . Bundled standoff in place. Location 26: Potentially Unstable Structure. Refer to Geotechnical Hazard Report Hazard 099 .	Information Only Level 1	✖ ✖	25/08/25 02:55 - PO 25/08/25 02:55 - PO
Area 13	Open	EX008, EX009, EX010	CH16	Hazard 123 Hazard 126 Hazard 129 Hazard 113 Hazard 115 Hazard 117 Hazard 119 Hazard 121 Hazard 127 Hazard 131	Location 33: Body of Water. Body of water . Bundled standoff in place. Location 34: Narrow Road. 35 section of Road slightly to narrow . Approach with caution. Location 31: Body of Water. In-pit JSA dump . Dump Short and Doze. Location 26: Potentially Unstable Structure. Refer to Geotechnical Hazard Report Hazard 113 . Location 27: Lowwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 115 . In-Pit Dump: Dump Failure/Instability. dump settling due to floor instability . Bundled standoff in place. Location 26: Highwall Failure/Instability. Refer to Geotechnical Hazard Report 478 . Location 26: Highwall Failure/Instability. Refer to Geotechnical Hazard Report Hazard 121 . Location 27: Slumping. Refer to Geotechnical Hazard Report Hazard 127 . Location 35: Dump Failure/Instability. Floor of dump has been identified as an old water hole and mud is heaving at the toe of the dump causing slumping . Dump Short and Doze.	Medium Medium Medium Level 1 Level 1 Level 1 Level 1 Level 1 Level 1	✖ ✓ ✓ ✖ ✖ ✖ ✖ ✖ ✖	24/08/25 02:49 - PO 10/08/25 16:39 - PO 25/08/25 03:01 - PO 25/08/25 03:01 - PO 25/08/25 03:01 - PO 25/08/25 03:01 - PO 25/08/25 03:01 - PO 25/08/25 03:01 - PO 25/08/25 03:00 - PO
Area 14	Restricted						✓	25/08/25 03:00 - PO

Checklist-based

Structured questions guide the inspection.

- Strengths:
 - Prompts consistent inspection coverage.
- Limitations:
 - Encourages tick and flick for “yes” values.
 - Yes or no answers can oversimplify the risk.

The quality depends heavily on the comments provided.

Useful in prestart?

Mine Site
14/02/2026 Day Shift

FORM | Open Cut Examiners Report Form

Date: 14/02/2026 | Pit: North Pit | District: North | Crew: | Shift: Day Shift | Start Time: 07:00 14/02/2026 | Finish Time: 19:00 14/02/2026

Off Going Open Cut Examiner		On Coming Open Cut Examiner		Review: Production Superintendent		Review: Production Manager (MEM) / Delegate	
Name	Signature	Name	Signature	Name	Signature	Name	Signature
		Person 002					
I, the above signed have inspected areas and activities under my control pursuant to the Work Health and Safety (Minas and Petroleum Sites) Act 2013 and Regulation 2022 (NNTW). This inspection has been in accordance with the MVO Inspection Program Procedures & I certify that this document is a full & accurate report of any observed exceptions which may affect the safety of persons in those areas.							
Lightning TARP	Normal (Green)	Dust TARP	Normal (Green)	Weather TARP	Normal (Green)		
Checklist				Actions/Notes			
Mobile Equipment							
Are active haul roads compliant with the Road Design Procedure?				Yes	Ongoing remediation.		
Are active haul circuit intersections compliant with the Haul Road Design Procedure?				Yes	Ongoing remediation.		
Are there any single lane access points on haul circuits? If yes, list controls.				Yes	Sign posted.		
Safe parking areas for light vehicles been provided at all dig and dump areas?				Yes			
Electrical Safety							
Are all cable towers spaced at a suitable distance in accordance with the procedure?				Yes			
Are all cables demarcated in the appropriate areas?				Yes			
Strata Failure							
Personnel working within 10m of the toe or crest?				No			
Are windrows of suitable height erected along roadways, highwalls and dumps?				Yes			
Are dump TARP signs positioned at all working dumps?				Yes			
Are there any water related issues (e.g. water pooling at wall crest or dump toe)?				No			
Are pit walls dug to design, stable, of correct batter and free from undercutting?				Yes			
Cobbles windrow in place to stop access into Bin 3 working area while removing cobbles?				N/A			
Has Main Loop windrow been closed off after opening Cobbles area?				N/A			
Fire and Explosion / Explosives and Shot Firing							
Are there any signs of Spon Com or heating?				No			
Are there any tied in loaded shots or unsecured IEHE left overnight?				Yes	BAR.		
Are there any misfires in your inspection district and have they been demarcated?				No			
Environment and Community							
Is roadway dust being maintained to acceptable limits?				Yes			
Are any lighting plants directed towards community sensitive receptors (visible off site)?				No			
Have there been any noise and dust alarms throughout the shift?				No			
Have hazardous bodies of water been identified that aren't captured on a plan?				No			
TARP 3 Activation		Incidents		Fitness/Fatigue			
New Intersections							
Hazard Name		Location		Supervisor		Rating	
No New Intersections This Shift							
Risk Level and Inspection Frequency Matrix							
Low	As per minimum requirements specified in Supervision and Inspection Plan		Mod	Minimum 6 hourly, unless specified otherwise in risk assessment		High	Minimum 3 hourly, unless specified otherwise in risk assessment
Area		RR	Insp. Freq.	Shift Comments			
NEW GEOTECHNICAL HAZARDS:							
No new geotechnical hazards this shift. Refer to next page for all geotechnical hazards.							
SUMPS & WATER BODIES							
No Data.							
LOADING UNITS							
EX002	Mod	4	(08:19 P0) Conventionally loading dusty material on shallow bench. Repairing floor for next dig bench so height complies with site standards.				
EX003	Mod	4					
Hazard 024	Mod	4	(08:16 P0) service day - area compliant				
Hazard 026	Mod	4	(08:05 P0) SSL following white shovel standoff load for high material at 316 above. Cable demarcated and area compliant				
Hazard 030	Mod	4	(07:13 P0) Loading VAX1A coal with dozer prepping. Trucks giving way to EX003 truck at new P01 intersection. Area compliant				
DUMPS							
Hazard 008	Green	4	(07:42 P0) Dump in good condition and level with windrows to standard. Monitoring toe limits on adjacent road below				
Hazard 036	Green	4					
Hazard 045	Green	6					
Hazard 052	Green	6					
Hazard 057	Yellow	4					
DRILL PATTERNS AND PREP							
No Data.							
ROADS							
Hazard 082	Mod	4					
Loaded Shots:				Active Pumps?			
-				-			
Shots added to map: No active blasting hazards added to map							
Misfires: No Misfires add to the HazView map							
Active JSA/Risk Assessments?				Explosives Magazine & Reload Facility:			
-				Magazine (Not Inspected) Reload Facility (Not Inspected)			
-				-			
Other Comments:							

Strengths and Weaknesses

Every structure has trade offs.

- Area reports:
 - Clear geographically but less operationally relevant.
- Machine reports:
 - Operationally useful but geographically weak.
- Checklists:
 - Structured but can become administrative; arguable usefulness for workers. Difficult reconciliation.

There is no universal standard.

Smaller sites trend towards operational. Large to area.

NSW trends towards checklists.

The Core Limitation

OCE reports are **static documents**.

- They represent a snapshot in time.
 - High relevance at start of shift.
- The mining environment changes continuously.
- What was true in the morning may not apply by midday.

The more complex they are, the more time that must be spent writing them instead of having OCEs in the field.

Practical Questions

During an investigation questions quickly arise:

- When was this area last inspected?
- When was the hazard first identified?
- What controls were/weren't in place?
- Who communicated this information to the crews?

The report becomes a **critical record of supervision**.

Does your current report answer these questions?

Communicating Hazards

Text based reports can struggle to convey:

- **Precise location** (turn left at Ramp A and continue ~200m to the insufficient bund).
- **Changed conditions** (updated once per shift).
- **Technical descriptions** (a photo says 1000 words).

Can workers **confidently identify** hazards and controls in the pit?

Visual communication dramatically improves understanding.

Visual guides are not standard in OCE reports.

Practical Example

- Are there hazards on this wall?
- When was it last inspected?
- What are the current controls?

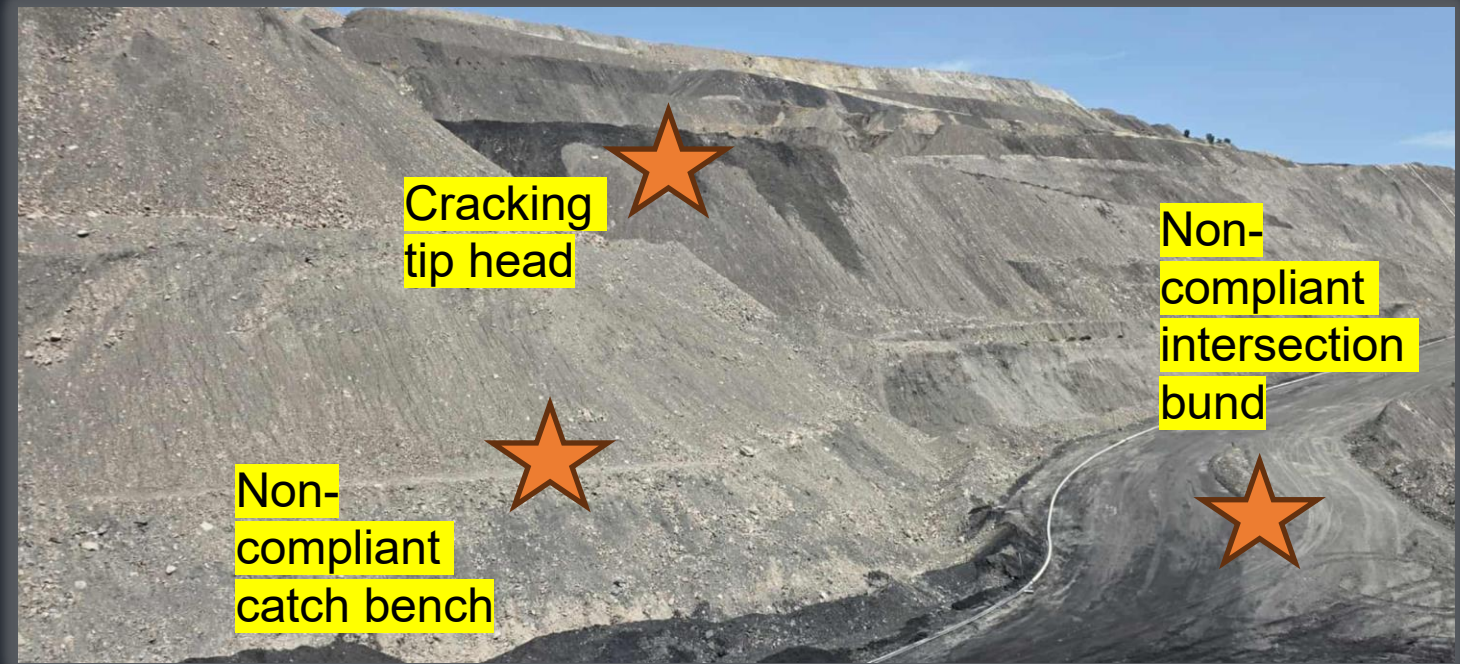


Name	Location	Type and Subtype	Description	Severity or TARP	JHA/ JSA/ RAS	Access	Last Inspected
Intersection bunding too high 250618_TV_2	Pit F	Operational Subsidence	Intersection bunding is too high. LVs unable to see over. To be reduced to site standard.	Severity 3	No	Restricted	18/6/2025 17:23 Tim Vangsness
Non-complaint catch bench 250618_TV_1	Pit F	Geotechnical Rockfall/Excessive Ravelling	Non-complaint catch bench resulting in continuous batter up to 80m. 10x3m bunded standoff required in areas of non-conformance.	TARP 2	No	Open	18/6/2025 17:22 Tim Vangsness
Tip head cracking 250118_TV_0	Pit F	Geotechnical Cracking/Instability	pooled water post rain and associated cracking behind dump crest	TARP 1	No		18/6/2025 11:32 Tim Vangsness

Practical Example

- Are there hazards on this wall?
- When was it last inspected?
- What are the current controls?

Maps and photos make the hazards immediately visible.



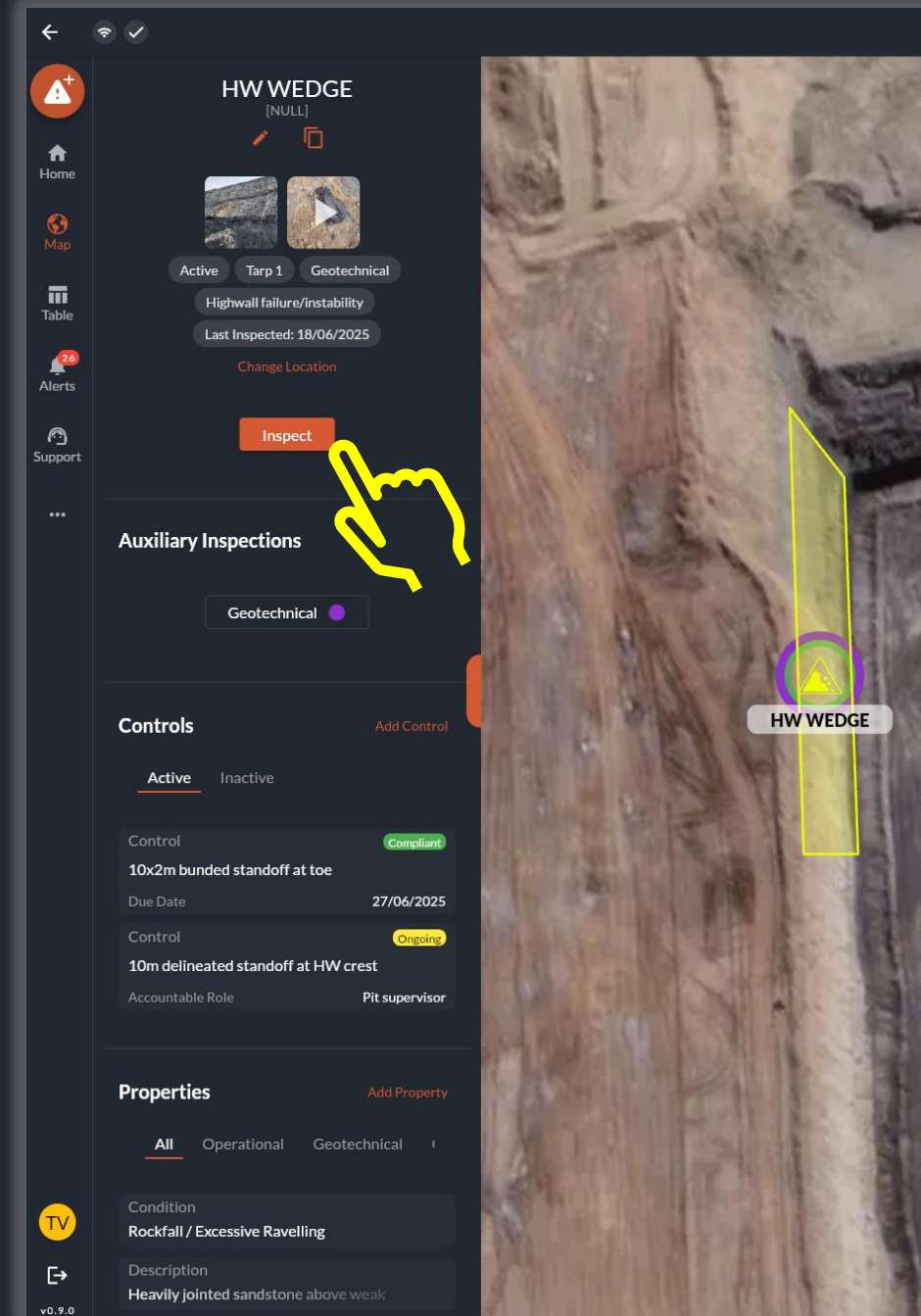
Static vs Spatial Information

Traditional reporting:

- Text-based descriptions.
- Isolated hazard entries or general comments.
- Limited/no historical context.

Spatial systems and electronic checklists:

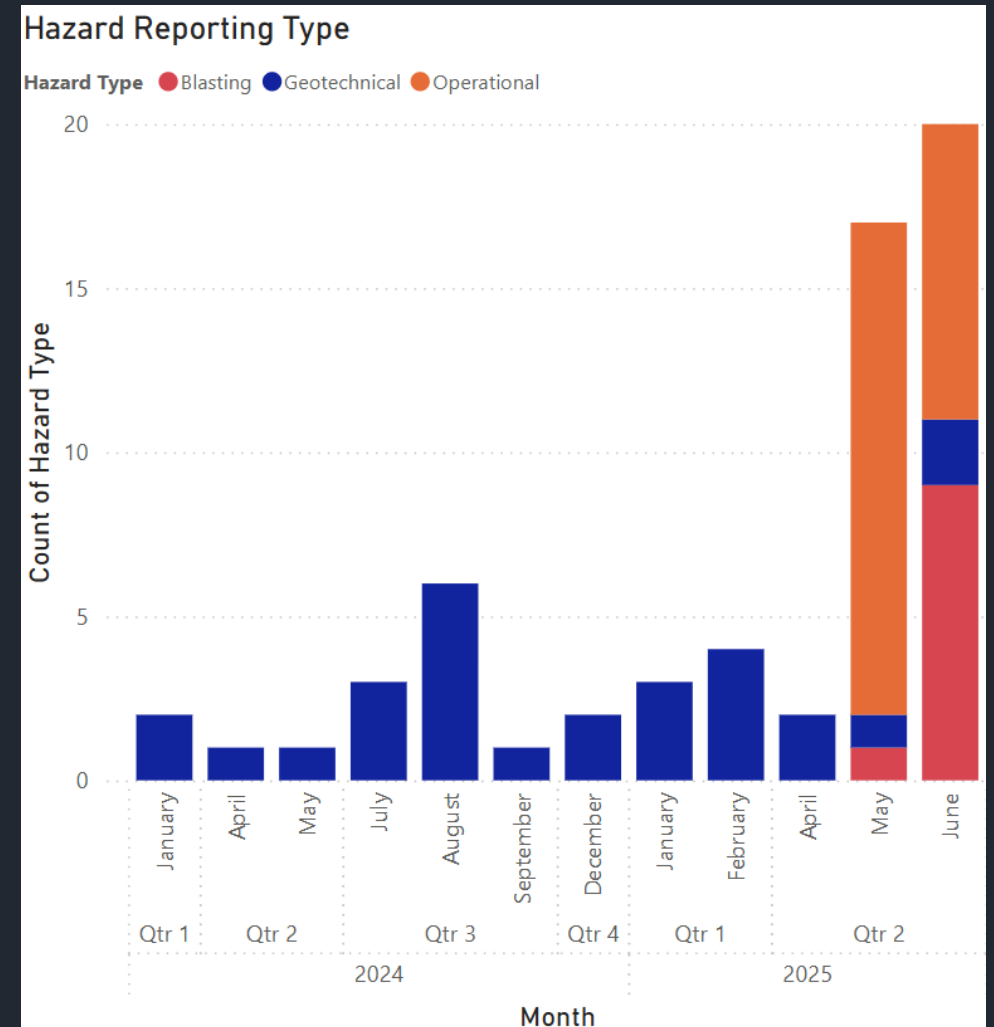
- Hazards mapped to locations.
- Inspection history tracked.
- Trends emerge over time.



Hazard Reporting Behaviour

- If you make it simple, workers will collect the data.
- Smaller hazards (pooling water, signage and intersection maintenance) were often “fixed on the spot” and never logged.

With spatial tools, these small-but-frequent hazards produce valuable trends.



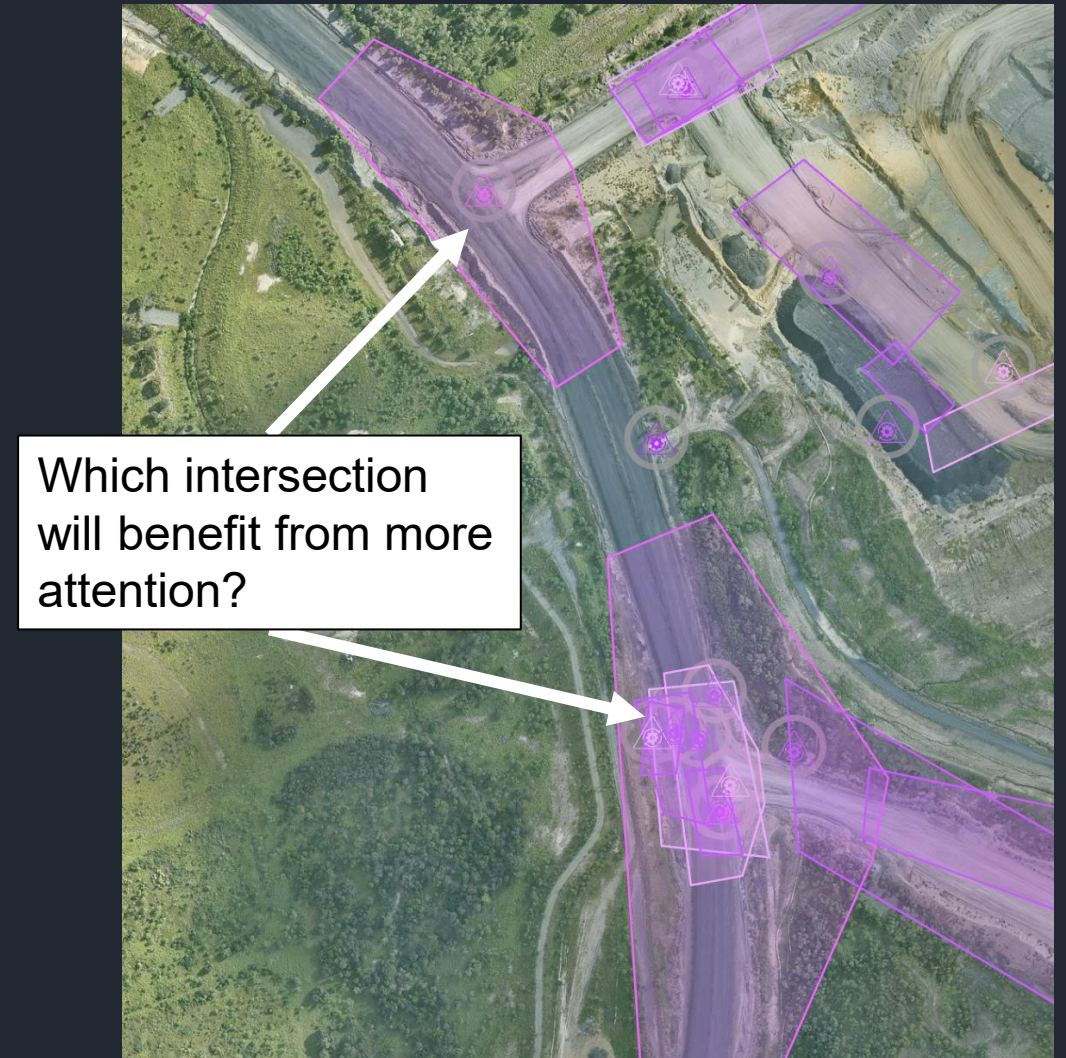
Intersection Hotspots

Historical hazard data highlights recurring issues at key intersections:

- Pooling, bunding, and poor drainage
- Geometry or signage not aligned with design
- Same locations, flagged repeatedly

Visual history makes it easy to see:

- Where problems persist
- Which areas aren't improving
- Where to focus remediation



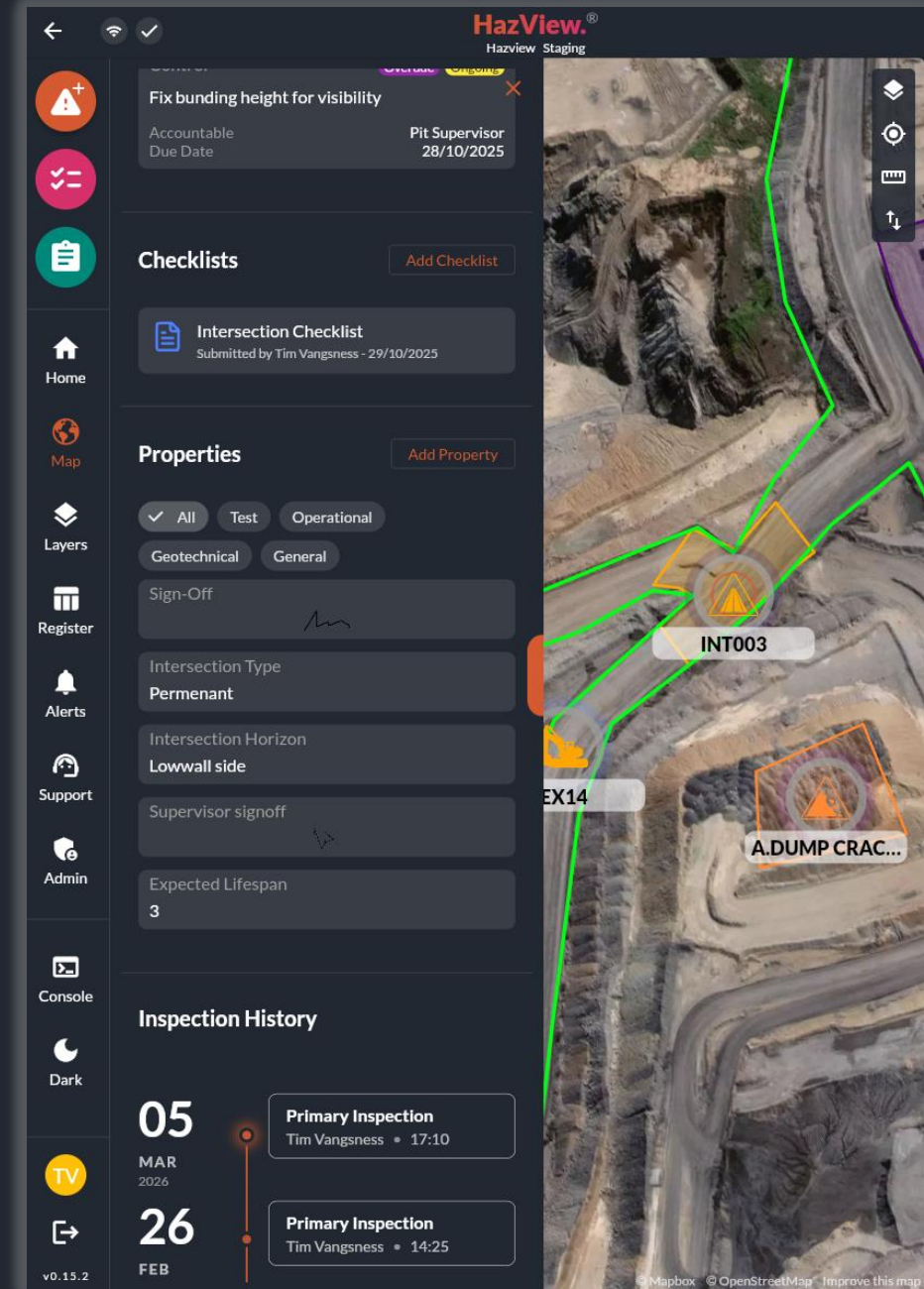
Industry Direction

Across mining operations there is a strong shift towards:

- Electronic inspections
- Photo records of changed conditions.
- Timestamped data.
- Automated reporting.

These tools **reduce administration** and **improve traceability**.

OCEs spend more time in the field instead of behind a screen.

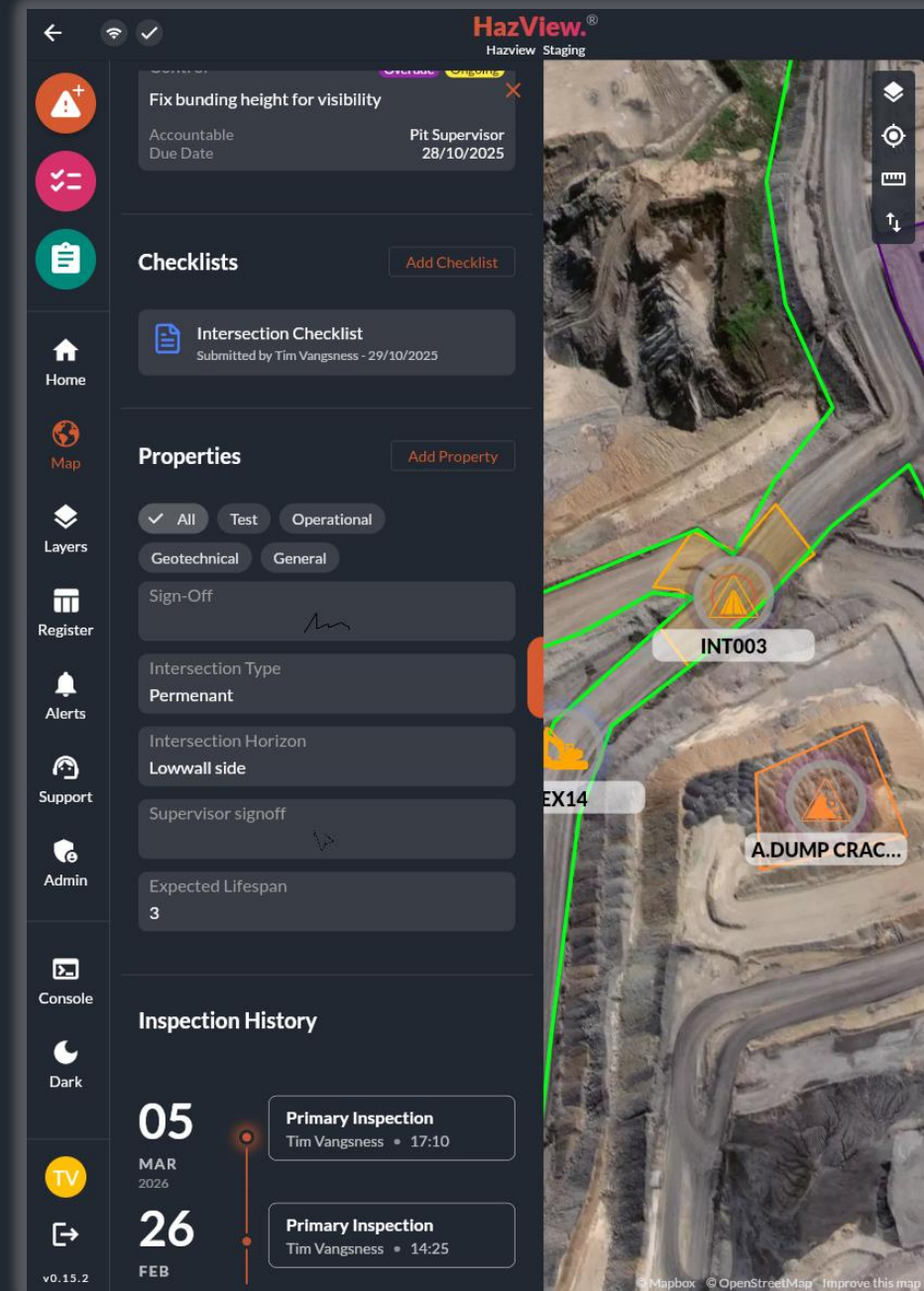


Key Takeaways

- OCE reports vary widely between sites.
- Legislation defines intent, not format.
- Report structure influences how hazards are communicated.
- Static report struggle to represent dynamic operations.

Clear communication of hazards, controls and history is the ultimate objective.

Cres Bulger (2015): Way of the future - Tablets



Thank you

- Questions?